AUDIO-VIDEO SURROUND RECEIVER

KRF-V6060D/V6060D-S/V7060D/V7060D-S/V8060D
KRF-V8060D-S/V8060D-G/X9060D/X9060D-S/X9060D-G
VR-6050/6060/6070

SERVICE MANUAL

KENWOOD

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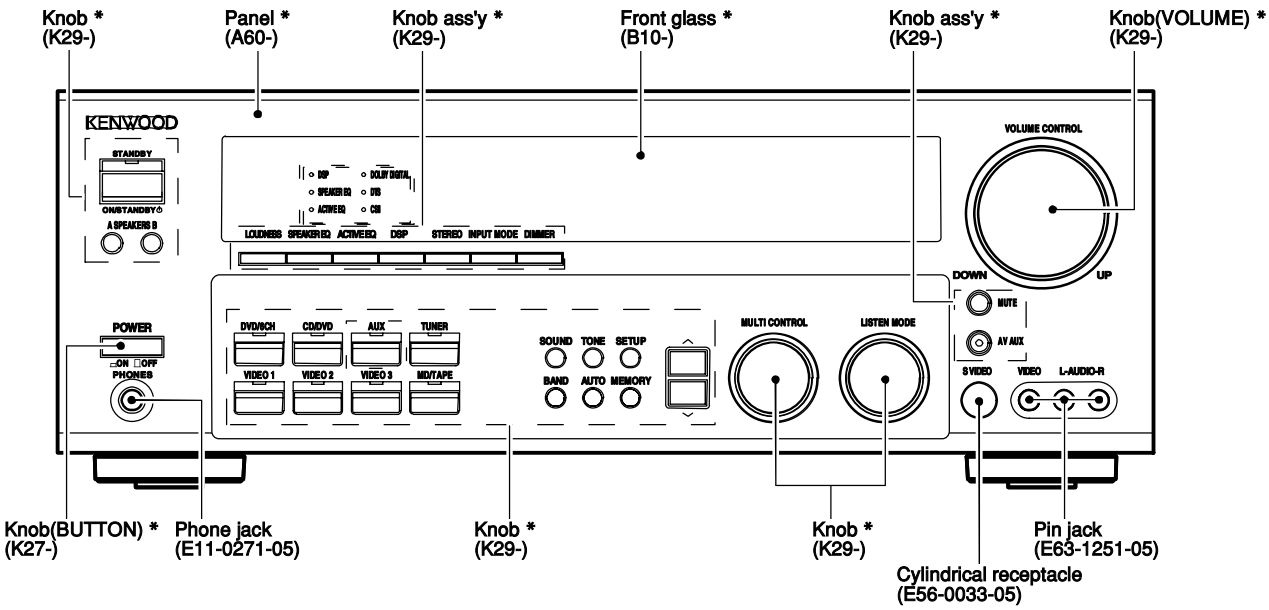
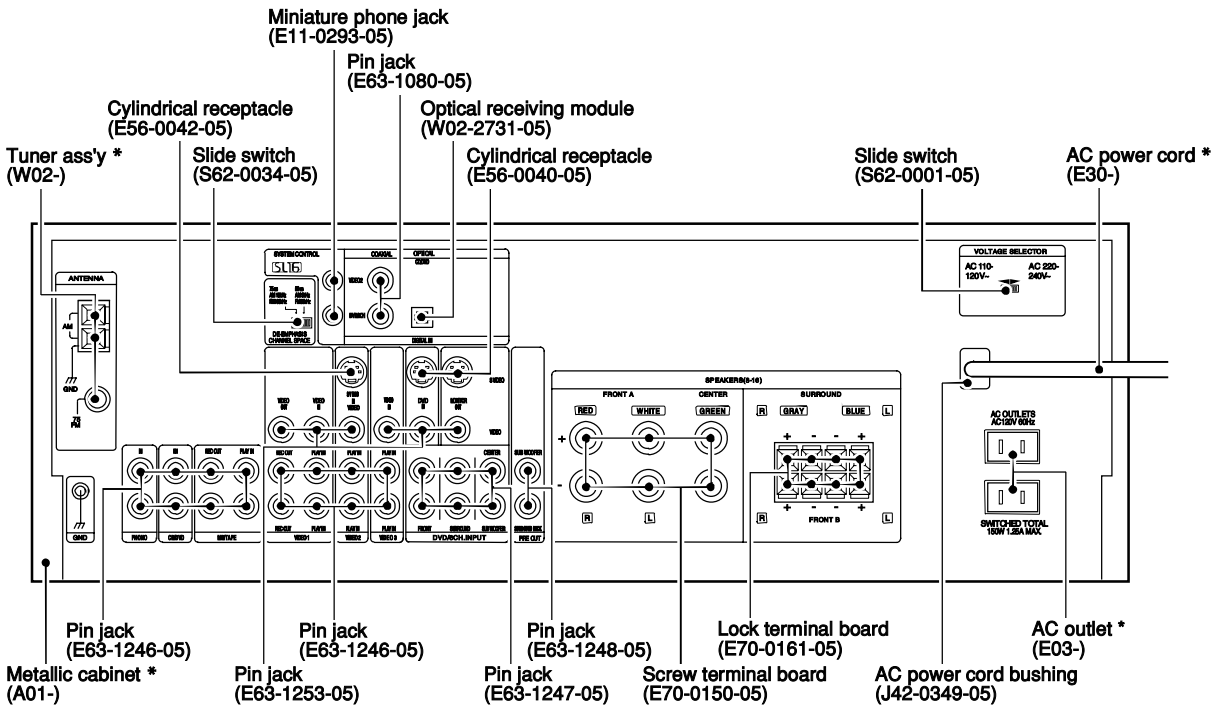
B51-5791-00 (K/K) 3529





Illust. is VR-6050/KRF-V6060D.

*** Refer to parts list on page 35.**

70%

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

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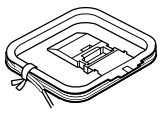
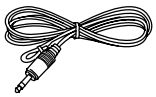
Accessories

FM indoor antenna (1)
(T90-0877-05)

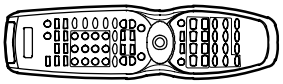
AM loop antenna (1)
(T90-0852-05)



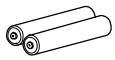
RF remote antenna (1)
(For VR-6060/6070 only)
(T90-0899-05)



Remote control unit (1)
Refer to the table on this page below.



Batteries (R6/AA) (2)



AC Plug Adaptor (1)

(E03-0383-05)

(E03-0382-05)

Use to adapt the plug on the power cord to the shape of the wall outlet.
(Accessory only for regions where use is necessary.)

Model name vs Remote controller

		Remote controller		
MODEL	**Destinations**	**Parts number**	**Model name**	**Battery cover**
VR-6050	KP	A70-1555-05	RC-R0727	A09-1258-08
KRF-V6060D	Y	A70-1555-05	RC-R0727	A09-1258-08
KRF-V6060D	E	A70-1554-05	RC-R0726	A09-1258-08
KRF-V6060D-S	TE	A70-1554-05	RC-R0726	A09-1258-08
KRF-V6060D-S	MIXH	A70-1555-05	RC-R0727	A09-1258-08
KRF-V7060D	E	A70-1554-05	RC-R0726	A09-1258-08
KRF-V7060D-S	E	A70-1554-05	RC-R0726	A09-1258-08
VR-6060	KP	A70-1552-05	RC-R0816	A09-1258-08
KRF-V8060D	E	A70-1554-05	RC-R0726	A09-1258-08
KRF-V8060D-S	E	A70-1554-05	RC-R0726	A09-1258-08
KRF-V8060D-S	X	A70-1553-05	RC-R0725	A09-1258-08
KRF-V8060D-G	M	A70-1553-05	RC-R0725	A09-1258-08
VR-6070	KP	A70-1549-05	RC-R0813	A09-1258-08
KRF-X9060D	E	A70-1551-05	RC-R0815	A09-1258-08
KRF-X9060D	Y	A70-1550-05	RC-R0814	A09-1258-08
KRF-X9060D-S	ET	A70-1551-05	RC-R0815	A09-1258-08
KRF-X9060D-S	X	A70-1550-05	RC-R0814	A09-1258-08
KRF-X9060D-G	MH	A70-1550-05	RC-R0814	A09-1258-08

Cautions

Resetting the Microcomputer

The microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

- Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

For the U.S.A. and Canada

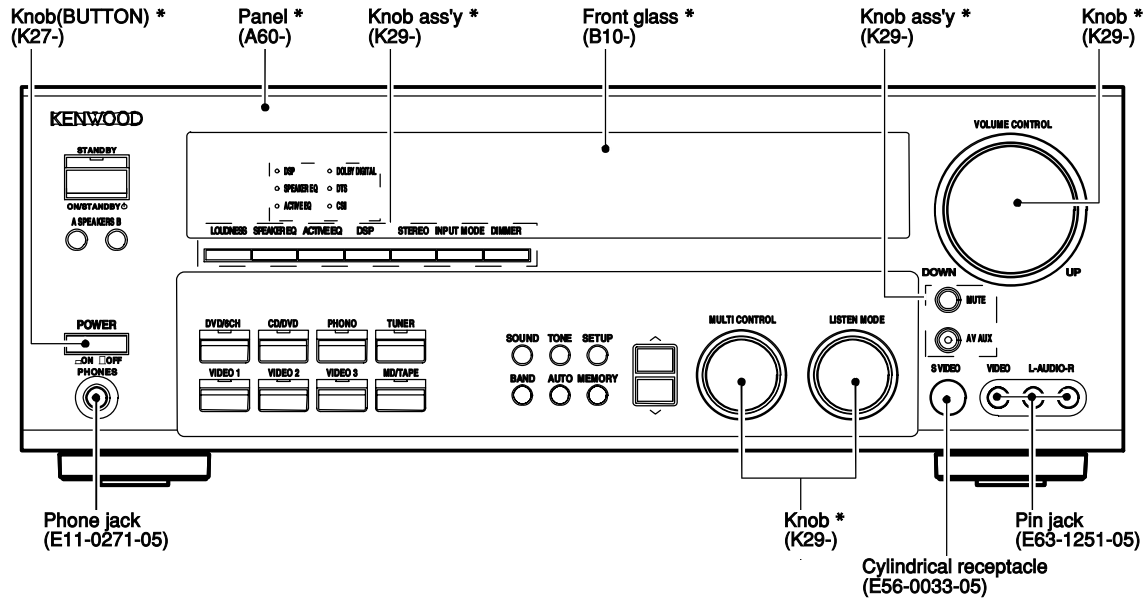
Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER ON/STANDBY ⏻ key.

For other countries

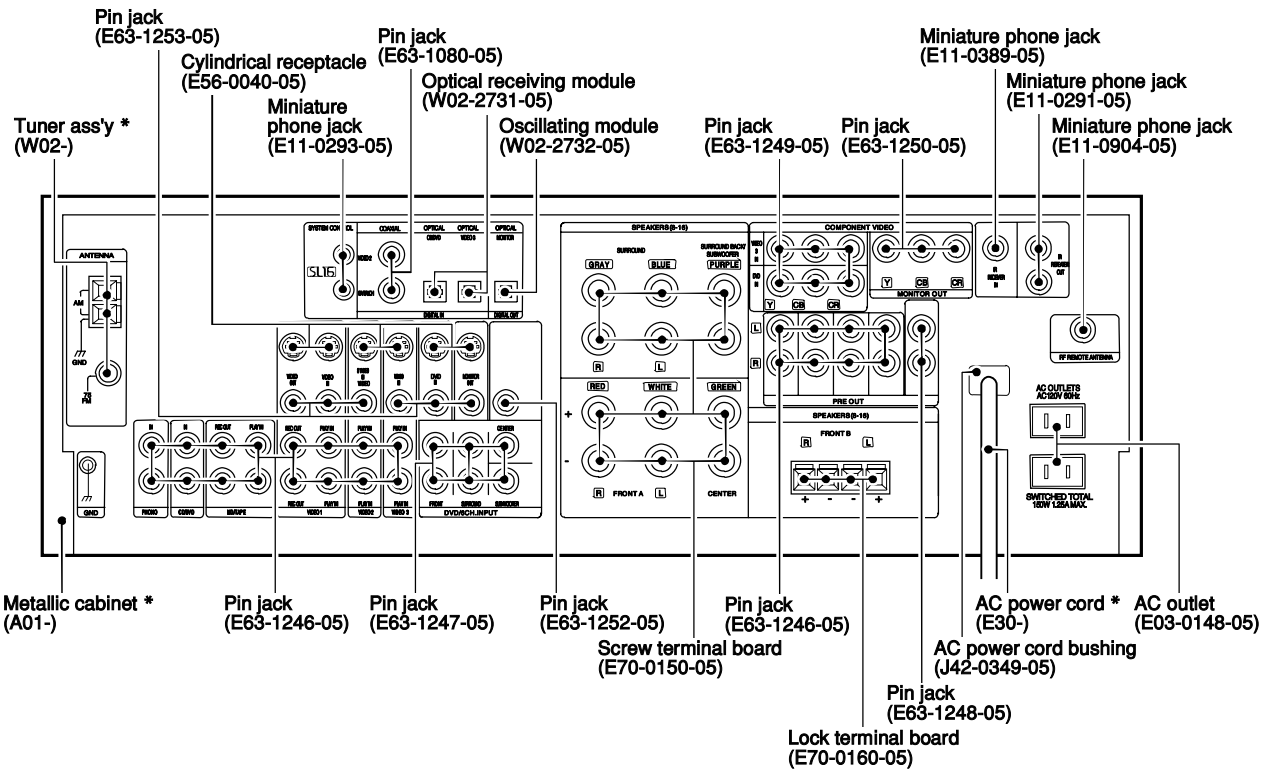
With the power cord plugged in, turn the POWER ON/OFF key OFF. Then, while holding down the ON/STANDBY ⏻ key, press POWER ON/OFF.

EXTERNAL VIEW

Illust. is VR-6070/KRF-X9060D.



Illust. is VR-6070.



*** Refer to parts list on page 35.**

CIRCUIT DESCRIPTION

1. Model Type & TUNER Destination

1-1 Model Type

Model Type	Model Type1 ∗(94Pin)	Model Type0 ∗(93Pin)
VR-6070/KRF-X9060D	0	0
VR-6060/KRF-V8060D	1	0
VR-6050/KRF-V6060D/KRF-V7060D	0	1

∗ Pin Number of Microprocessor

1-2 TUNER Destination

Set Type	Type	Band	Receiving Frequency Range	Channel Space	IF	PLL
K/P	K1	FM	87.50MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1700kHz	10kHz	+450kHz	10kHz
Y/M/I	K2	FM	87.50MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1607kHz	10kHz	+450kHz	10kHz
Y/M/V/X H	E1	FM	87.50MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz
E/T	E3 RDS	FM	87.50MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz

Input Voltage(V)	Tuner Destination	R (kΩ)	Volt (V)
0	K/P	Open	0
1.6~2.0	E/T	27	1.79
2.1~2.5	-	-	-
2.6~3.0	Y/M/I(M2)	12	2.78
3.1~3.5	-	-	-
3.6~4.0	Y/M/V/X(E1)	4.7	3.81
4.1~4.5	-	-	-

For M type, K2/E1 are decided by CH SPACE
CH SPACE = 1 →K2 TYPE
CH SPACE = 0 →E1 TYPE

2. Tuner Preset Memory

P.ch	K1	K2	E1/E3	P.ch	K1	K2	E1/E3
1	FM 98.3M	FM 98.3M	FM 98.3M	21	AM 530K	AM 530K	AM 531K
2	FM 108.0M	FM 108.0M	FM 108.0M	22	FM 87.5M	FM 87.5M	FM 87.5M
3	FM 89.1M	FM 89.1M	FM 89.1M	23	FM 87.5M	FM 87.5M	FM 87.5M
4	FM 87.5M	FM 87.5M	FM 87.5M	24	FM 87.5M	FM 87.5M	FM 87.5M
5	FM 90.0M	FM 90.0M	FM 90.0M	25	FM 87.5M	FM 87.5M	FM 87.5M
6	FM 87.5M	FM 87.5M	FM 87.5M	26	FM 87.5M	FM 87.5M	FM 87.5M
7	FM 87.5M	FM 87.5M	FM 87.5M	27	FM 87.5M	FM 87.5M	FM 87.5M
8	AM 1610K	FM 87.5M	AM 1503K	28	FM 87.5M	FM 87.5M	FM 87.5M
9	AM 1700K	AM 1610K	AM 1584K	29	FM 87.5M	FM 87.5M	FM 87.5M
10	AM 1050K	AM 1050K	AM 999K	30	FM 106.0M	FM 106.0M	FM 106.0M
11	AM 630K	AM 630K	AM 621K	31	FM 87.5M	FM 87.5M	FM 87.5M
12	AM 1440K	AM 1440K	AM 1350K	32	FM 87.5M	FM 87.5M	FM 87.5M
13	FM 106.0M	FM 106.0M	FM 106.0M	33	FM 87.5M	FM 87.5M	FM 87.5M
14	AM 530K	AM 530K	AM 531K	34	FM 87.5M	FM 87.5M	FM 87.5M
15	FM 87.5M	FM 87.5M	FM 87.5M	35	FM 87.5M	FM 87.5M	FM 87.5M
16	FM 98.0M	FM 98.0M	FM 98.0M	36	FM 87.5M	FM 87.5M	FM 87.5M
17	FM 98.5M	FM 98.5M	FM 98.5M	37	FM 87.5M	FM 87.5M	FM 87.5M
18	FM 87.5M	FM 87.5M	FM 87.5M	38	FM 87.5M	FM 87.5M	FM 87.5M
19	AM 990K	AM 990K	AM 945K	39	FM 108.0M	FM 108.0M	FM 108.0M
20	FM 97.4M	FM 97.4M	FM 97.4M	40	AM 1000K	AM 1000K	AM 945K

CIRCUIT DESCRIPTION

3. Test Mode

3-1 Entering the Test Mode

- While holding down the "BAND" key, plugged in the power cord to AC power wall outlet.

3-2 Cancelling the Test Mode

- Initialized and cancel the test mode if plugged out the power code.

3-3 Contents of the Test Mode

3-3-1 TUNER mute on/off

- The key is functioning when selector is set to TUNER.

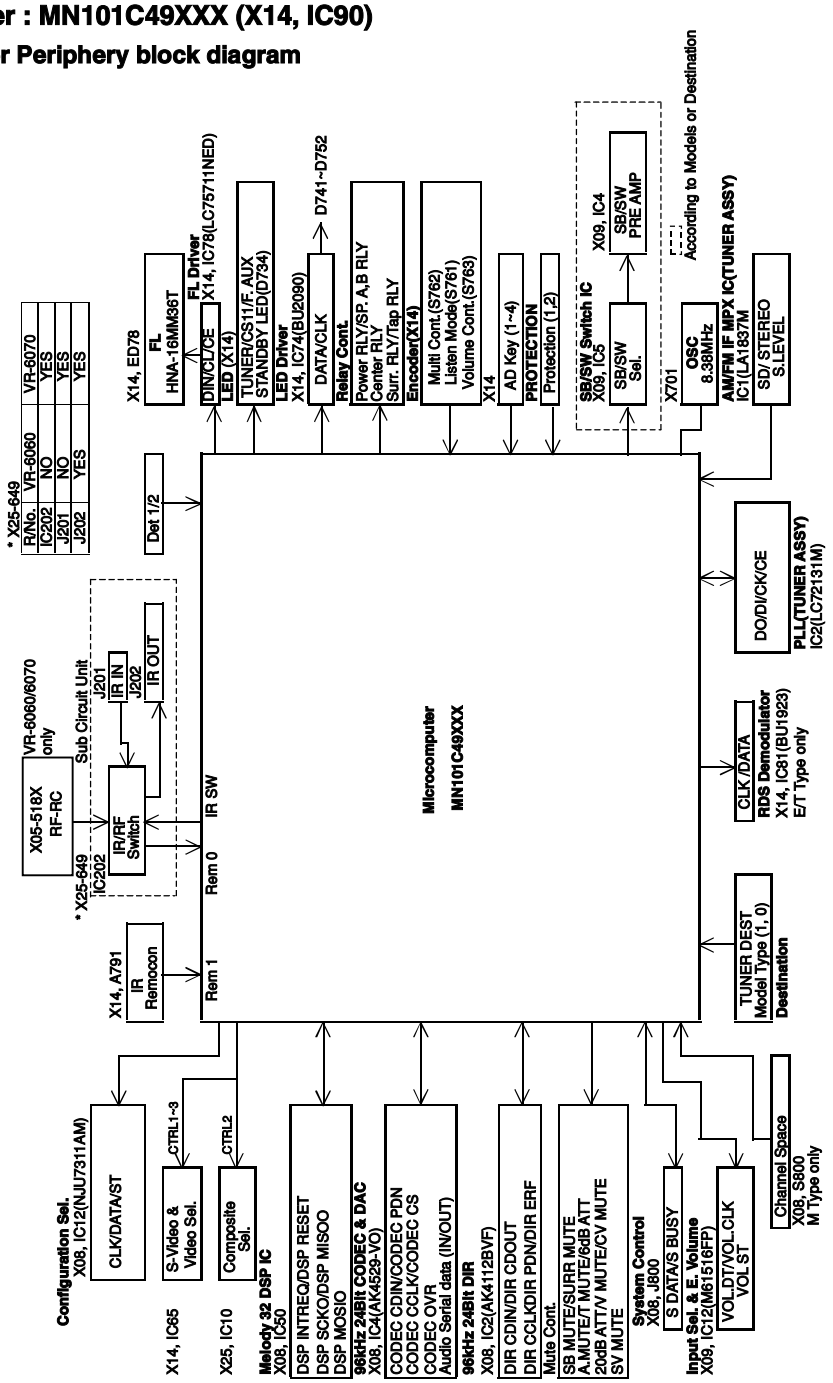
Key	Function
MUTE	TUNER mute on/off

3-3-2 RF ON/RF OFF (VR-6060/6070 only)

Key	Display	Function
SPEAKER EQ.	RF ON	Set up RF ON.
	RF OFF	Set up RF OFF.

4. Microcomputer : MN101C49XXX (X14, IC90)

4-1 Microcomputer Periphery block diagram



CIRCUIT DESCRIPTION

4-2Pin Description for Microcomputer : MN101C49XXX (X14, IC90)

Pin No.	Pin Name	I/O	Pin Description
1	VREF-	-	Connected to ground.
2	T DEST	I	Discrimination pin for tuner destination.
3	DET1	I	Detection pin of output level for FL/FR.
4	DET2	I	Detection pin of output level for SL/SR and Center.
5	S LEVEL	I	Input pin of FM S meter level.
6~9	AD KEY GET(1~4)	I	A/D key (1~4) input.
10	VREF+	-	A/D reference voltage.
11	VDD	-	Power supply (+5V) for microcomputer.
12	OSC2	O	Main clock output (8.388MHz).
13	OSC1	I	Main clock input (8.388MHz).
14	VSS	-	Connected to be ground.
15	XI	-	Connected to be ground.
16	XO	-	Unused.
17	MMOD	-	Memory mode switch input pin (unused).
18	FL DIN	O	Transfer data output to FL driver.
19	FL CS	O	Chip enable output to FL driver.
20	FL CLK	O	Synchronism clock output to FL driver.
21	FL RESET	O	System reset signal output to FL driver.
22	IR SW	O	Switching pin for IR/RF.
23	RF CS	O	Chip select output to PLL of RF-RC demodulator.
24	RF DATA	O	Data output to PLL of RF-RC demodulator.
25	RF CLK	O	Clock output to PLL of RF-RC demodulator.
26	REM I	I	Remote control signal input 1(Front panel).
27	REM 0	I	Remote control signal input 1(Rear panel).
28	DIR ERF	I	Detection pin for DIR ERROR signal.
29	DSP INTREQ	I	Detection pin for DSP INTREQ.
30	CE2/RDS CLK	I	Clock input of RDS demodulator IC.
31	CE1	I	Detection pin for DSP INTREQ.
32	N.C.	-	Unused.
33	RESET	I	Reset signal input for microcomputer.
34	S BUSY	I/O	Serial busy signal input/output.
35	S DATA	I/O	Serial data signal input/output.
36	DSP RESET	O	Reset signal output to DSP.
37	CODEC OVR	I	Analog overflow detection pin.
38	CODEC PDN	O	Power down mode pin for CDDEC.
39	DIR PDN	O	Power down mode pin for DIR.
40	AK CS	O	Chip select output to DIR (X08, IC2).
41	N.C.	-	Unused.
42	AK CDTI	O	Control data output to DIR (X08, IC2).
43	DIR CDTO	I	Control data input from DAC (X08, IC4).
44	AK CLK	O	Clock output to DIR (X08, IC2).
45	DSP MOSIO	O	Data output pin to DSP (X08, IC50).
46	DSP MISOO	I	Data input pin from DSP (X08, IC50).
47	DSP SCKO	O	Clock output pin to DSP (X08, IC50).
48	SEL. ST	O	Strobe 1output to selector IC (X08, IC12).
49	SEL. CLK	O	Clock output to selector IC (X08, IC12).
50	SEL. DATA	O	Data output to selector IC (X08, IC12).
51~53	V. CTL 1~3	O	Video switch control.
54	SV. MUTE	O	Mute control to S-video & video selector (X14, IC65).
55	CV. MUTE	O	Mute control to video selector IC (X25, IC102).
56	STEREO	I	Stereo signal input from IC1(TUNER ASSY).
57	SD	I	Synchronized signal detection input.
58	T MUTE	O	Mute signal output for TUNER.
59	PLL DO	I	Data input from PLL IC (TUNER ASSY).

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
60	PLL CLK	O	Clock output to PLL IC (TUNER ASSY).
61	PLL DIN	O	Data output to PLL IC (TUNER ASSY).
62	PLL CE	O	Chip enable output to PLL IC (TUNER ASSY).
63	SURR.MUTE	I	Mute control for surround.
64	SB PREMUTE	O	Mute control for SB.
65	SP. A RLY	O	Relay control for A speaker.
66	C RLY	O	Relay control for center speaker.
67	SURR.RLY	O	Relay control for surround speaker.
68	SP. B RLY	O	Relay control for B speaker.
69	SB SW SELECT	O	Selection port for SB and SW.
70	VOL SEL. ST	O	Strobe output to E. volume IC (X09, IC2).
71	VOL. SEL DATA	O	Data output to E. volume IC (X09, IC2).
72	VOL. SEL CLK	O	Clock output to E. volume IC (X09, IC2).
73	TAP RLY	O	Switching port for transformer tap.
74	LIMITER	O	Power control for A class.
75	DSP CS	I	CS input port from DSP.
76	CH SPACE/RDS DIN	I	Data input of RDS demodulator IC.
77	A. MUTE	O	Audio mute control.
78	PROT2	I	Protection signal detection pin for over voltage.
79	PROT1	I	Detection pin of protection for shorted supply voltage.
80	P0WER RLY	O	Control port of power relay.
81	LED DATA	O	Data output to led driver (X14, IC74).
82	LED CLK	O	Clock output to led driver (X14, IC74).
83	F AUX LED	O	LED (F.AUX) control port.
84	TUNER LED	O	LED (TUNER) control port.
85	STANDBY LED	O	LED (STANDBY) control port.
86	CS Ⅱ LED	O	LED (CSⅡ) control port.
87	MULTI ENC A	I	Encoder (Multi control) upward detection.
88	MULTI ENC B	I	Encoder (Multi control) downward detection.
89	LISTEN ENC A	I	Encoder (LISTEN MODE) upward detection.
90	LISTEN ENC B	I	Encoder (LISTEN MODE) downward detection.
91	VOL. ENC A	I	Encoder (Vol. Cont.) clockwise detection.
92	VOL. ENC B	I	Encoder (Vol. Cont.) counterclockwise detection.
93	MODEL TYPE 0	I	Discrimination port for model type.
94	MODEL TYPE 1	I	Discrimination port for model type.
95	DAVSS	-	Connected to be ground.
96,97	N.C.	-	Unused.
98	20dB ATT.	O	20dB attenuator control.
99	6dB ATT.	O	6dB attenuator control.
100	DAVDD	-	+5V power supply.

5. Key Matrix

Input Voltage (V)	AD Key Get 1 (Pin 6)	AD Key Get 2 (Pin 7)	AD Key Get 3 (Pin 8)	AD Key Get 4 (Pin9)	R (kΩ)	Volt (V)
0.0 to 1.0	Key Off					
1.1 to 1.5	DVD/6CH	LOUDNESS or THX	SOUND	-	43	1.29
1.6 to 2.0	CD/DVD	SP EQ	TONE	STANDBY	27	1.79
2.1 to 2.5	PHONO	ACTIVE EQ	SET UP	-	18	2.27
2.6 to 3.0	TUNER	DSP	BAND	SPA	12	2.78
3.1 to 3.5	VIDEO 1	STEREO	AUTO	SPB	7.5	3.33
3.6 to 4.0	VIDEO 2	INPUT MODE	MEMORY	-	4.7	3.81
4.1 to 4.5	VIDEO 3	DIMMER	UP	MUTE	2.4	4.31
4.6 to 5.0	MD/TAPE	-	DOWN	AV AUX	0.62	4.80

CIRCUIT DESCRIPTION

6. Pin description of ICs

6-1 PLL Frequency Synthesizer LSI : (X05, IC3) VR-6060/6070 (K/P) Type Only

Pin No.	Pin Name	I/O	Pin Description
1	XIN	I	Reference signal input pin (X'tal oscillation pin).
2	CL	I	Data input pin.
3	DI	I	Data input pin.
4	CE	I	Data input pin.
5	VCCR	-	ECL block power supply pin.
6	PI	I	Comparison signal input pin.
7	GND R	-	ECL block GND pin.
8	TEST	-	GND
9	CP	O	Built-in charge pump output pin.
10	PDP	O	Phase comparator output for an external charge pump. (Connected to GND)
11	PDN	O	Unused.
12	GND D	-	GND pin for circuits except the ECL block.
13	VCC D	-	Power supply pin for circuits except the ECL block.
14	PE	O	Phase error output pin for phase comparator (Unused).
15	OUT	O	Output port pin for switching external SW (GND).
16	XOUT	O	Output pin for X'tal oscillation.

6-2 IF MIXER : TK14583V (X05, IC4) VR-6060/6070 (K/P) Type Only

Pin No.	Pin Name	I/O	Pin Description
1	OSCB	-	Colpitts oscillation circuit.
2	OSCE	-	Colpitts oscillation circuit. (Unused)
3	MVCC	-	Supply power for mixer section.
4	MOUT	O	Mixer output port.
5	DECPL1	-	Bypass capacitor connection for limiter amplifier.
6	IF IN	I	Input port of limiter amplifier.
7	DECPL2	-	Bypass capacitor connection for limiter amplifier.
8	CGND	-	Data comparator ground.
9	COUT	O	Data comparator output.
10	CIN-	I	Data comparator input.
11	CIN+	I	Data comparator input.
12	AOUT	O	Ope. Amplifier output.
13	AIN-	I	Ope. Amplifier input.
14	AIN+	I	Ope. Amplifier input.
15	DOUT	-	Detector output. (Unused)
16	DIN	I	Detector input.
17	IFOUT	-	IF limiter output. (Unused)
18	RSSI	O	RSSI output port.
19	IGND	-	IF section ground.
20	IVCC	-	Supply power for IF section.
21	PWSAVE	-	Connected to power supply.
22	MGND	-	Mixer section ground.
23	MIN1	I	Mixer input port.
24	MIN2	I	Mixer input port.

CIRCUIT DESCRIPTION

6-3 96kHz 24Bit DIR : AK4112BVF (X08, IC2)

Pin No.	Pin Name	I/O	Pin Description
1	DVDD	-	Digital power supply pin. (3.3V)
2	DVSS	-	Digital ground pin.
3	TVDD	-	Input buffer power supply pin. (5.0V)
4	TX	O	Transmit channel (through data) output pin in serial mode.
5	XTI	I	X'tal input pin.
6	XTO	O	X'tal output pin. (Open)
7	PDN	I	Power down mode pin. When "L", the AK4112B is powered-down and reset.
8	R	-	External resistor pin.
9	AVDD	-	Analog power supply pin.
10	AVSS	-	Analog ground pin.
11	RX1	I	Receiver channel 1 This channel is selected in parallel mode or default of serial mode.
12	RX2	I	Receiver channel 2 in serial mode.
13	RX3	I	Receiver channel 3 in serial mode.
14	RX4	I	Receiver channel 4 in serial mode.
15	AUTO	O	Non PCM detect pin. "L" : No detect, "H" : Detect (Open)
16	P/S	I	Parallel/Serial select pin. "L" : Serial mode, "H" : Parallel mode (Analog ground)
17	FS96	O	96kHz sampling detect pin. (RX Mode) "H" : fs=88.2kHz or more, "L" fs=54kHz or less. (X'tal Mode) "H" : XFS96=1, "L" : XFS96=0.
18	ERF	O	Unlock & Parity Error output pin. "L" : No error, "H" : Error
19	LRCK	I/O	Output channel clock pin.
20	SDTO	O	Audio serial data output pin.
21	BICK	I/O	Audio serial data clock pin.
22	DAUX	I	Auxiliary audio data input pin. (Analog ground)
23	MCK02	O	Master clock #2 output pin. (Open)
24	MCK01	O	Master clock #1 output pin.
25	CSN	I	Chip select pin in serial mode.
26	CCLK	I	Control data clock pin in serial mode.
27	CDTI	I	Control data input pin in serial mode.
28	CDTO	O	Control data output pin in serial mode.

6-4 96kHz 24Bit CODEC & DAC : AK4529-VQ (X08, IC4)

Pin No.	Pin Name	I/O	Pin Description
1	SDOS	I	SDTO Source Select Pin (unused)
2	I2C	I	Control Mode Select Pin (unused)
3	SMUTE	I	Soft Mute Pin (Unused)
4	BICK	I	Audio Serial Data Clock Pin
5	LRCK	I	Input Channel Clock Pin
6~8	SDTI (1~3)	I	DAC(1~3) Audio Serial Data Input Pin
9	SDTO	O	Audio Serial Data Output Pin
10	DAUX	I	AUX Audio Serial Data Input Pin (GND)
11	DFS	I	Double Speed Sampling Mode Pin (GND)
12	SDTI4	I	DAC4 Audio Serial Data Input Pin (GND)
13	DZFE	I	Zero Input Detect Enable Pin (GND)
14	TVDD	-	Output Buffer Power Supply Pin (+3.3V)
15	DVDD	-	Digital Power Supply Pin (+5.0V)
16	DVSS	-	Digital Ground Pin
17	PDN	-	Power Down & Reset Pin
18	TST	-	Test Pin (GND)
19	CAD1	-	Chip Address 1 Pin (GND)
20	CAD0	-	Chip Address 0 Pin
21	LOUT4	O	DAC4 Center Channel Output Pin
22	ROUT4	O	DAC4 SW Channel Output Pin
23	LOUT3	O	DAC3 SBL Channel Output Pin
24	ROUT3	O	DAC3 SBR Channel Output Pin

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
25	LOUT2	O	DAC2 SL Channel Output Pin
26	ROUT2	O	DAC2 SR Channel Output Pin
27	LOUT1	O	DAC1 FL Channel Output Pin
28	ROUT1	O	DAC1 FR Channel Output Pin
29	NC1	-	Unused
30	NC2	-	Unused
31	LIN	I	Lch Analog Input Pin
32	RIN	I	Rch Analog Input Pin
33	OVR	O	Analog Input Overflow Detect Pin
34	VCOM	O	Common Voltage Output Pin
35	VREFH	I	Positive Voltage Reference Input Pin
36	AVDD	-	Analog Power Supply Pin (+5.0V)
37	AVSS	-	Analog Ground Pin
38	DZF1	-	Zero Input Detect 1 Pin (unused)
39	MCLK	I	Master Clock Input Pin
40	P/S	I	Parallel/Serial Select Pin (GND)
41	CSN	I	Chip Select Pin in 3-wire Serial Control Mode
42	CCLK	I	Control Data Clock Pin in Serial Control Mode
43	CDTI	I	Control Data Input Pin in Serial Control Mode
44	TDM	I	TDM I/F Format Mode Pin (GND)

6-5 Input Selector & E. Volume : M61516FP (X09, IC2)

Pin No.	Pin Name	I/O	Pin Description
1	L V3	I	Input pin of L channel VIDEO 3.
2	L 6CH	I	Input pin of FL channel DVD/6 channel.
3	L REC	I	Input pin of L channel REC.
4	L MD REC	O	Output pin of L channel MD REC.
5	L V1 REC	O	Output pin of L channel VIDEO1 REC.
6	N.C.	-	Unused.
7	N.C.	-	Unused.
8,22,52,53	VOL GND(1~4)	-	Analog ground for 8channel volume.
9	FL IN	I	Input pin of FL channel.
10	SL IN	I	Input pin of SL channel.
11	SBL IN	I	Input pin of SBL channel.
12	C IN	I	Input pin of C channel.
13	SW IN	I	Input pin of SW channel.
14	SBR IN	I	Input pin of SBR channel.
15	SR IN	I	Input pin of SR channel.
16	FR IN	I	Input pin of FR channel.
17,18,42,43	BASS(L1,L2,R1,R2)	-	Frequency characteristic setting pin of the tone control (Bass).
19,41	TRE(L,R)	-	Frequency characteristic setting pin of the tone control (Treble).
20,40	L T/RT OUT	O	Output pin of tone.
21	FL VIN	I	Input pin of FL channel volume.
23	TIM1	-	Timer setting pin for Zero-Cross detector.
24	DVDD	-	Power supply to internal logic circuit.
25	LATCH	I	Latch input from CPU.
26	DATA	I	Data input from CPU.
27	CLOCK	I	Clock input from CPU.
28	DGND	-	Ground of internal logic circuit.
29	AVCC	-	Positive power supply to internal analog circuit.
30	OUT GND	-	Ground for output block.
31	FL OUT	O	Output pin of FL channel.
32	SL OUT	O	Output pin of SL channel.
30	OUT GND	-	Ground for output block.
31	FL OUT	O	Output pin of FL channel.

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
32	SL OUT	O	Output pin of SL channel.
33	SBL OUT	O	Output pin of SBL channel.
34	C OUT	O	Output pin of C channel.
35	SW OUT	O	Output pin of SW channel.
36	SBR OUT	O	Output pin of SBR channel.
37	SR OUT	O	Output pin of SR channel.
38	FR OUT	O	Output pin of FR channel.
39	FR VIN	I	Input pin of FR channel volume.
44	DVD/6CH FR	I	Input pin of FR channel DVD/6 channel.
45	DVD/6CH SR	I	Input pin of SR channel DVD/6 channel.
46	N.C.	-	Unused.
47	DVD/6CH SW	I	Input pin of SW channel DVD/6 channel.
48	DVD/6CH C	I	Input pin of C channel DVD/6 channel.
49	N.C.	-	Unused.
50	DVD/6CH SL	I	Input pin of SL channel DVD/6 channel.
51	DVD/6CH FL	I	Input pin of FL channel DVD/6 channel.
54	LCH	O	Output pin of L channel balance (+).
55	L LOUDNESS	-	Frequency characteristic setting pin of the loudness part and output pin of L channel balance (-).
56	IN GND	-	Ground for input block.
57	R LOUDNESS	-	Frequency characteristic setting pin of the loudness part and output pin of R channel balance (-).
58	RCH	O	Output pin of R channel balance (+).
59	N.C.	-	Unused.
60	N.C.	-	Unused.
61	R V1 REC	O	Output pin of R channel VIDEO1 REC.
62	R MD REC	O	Output pin of R channel MD REC.
63	R REC	I	Input pin of R channel REC.
64	R 6CH	I	Input pin of FR channel DVD/6 channel.
65	R V3	I	Input pin of R channel VIDEO 3.
66	R V2	I	Input pin of R channel VIDEO 2.
67	R V1	I	Input pin of R channel VIDEO 1.
68	R MD/TAPE	I	Input pin of R channel MD/TAPE.
69	R AUX	I	Input pin of R channel AUX.
70	R TUNER	I	Input pin of R channel TUNER.
71	R PHONO	I	Input pin of R channel PHONO.
72	R CD/DVD	I	Input pin of R ch CD/DVD.
73	AVEE	-	Negative power supply to internal analog circuit.
74	L CD/DVD	I	Input pin of L channel CD/DVD.
75	L PHONO	I	Input pin of L channel PHONO.
76	L TUNER	I	Input pin of L channel TUNER.
77	L AUX	I	Input pin of L channel AUX .
78	L MD/TAPE	I	Input pin of L ch MD/TAPE.
79	L V1	I	Input pin of L channel VIDEO 1.
80	L V2	I	Input pin of L channel VIDEO 2.

CIRCUIT DESCRIPTION

6-6 S-Video & Video Selector : LA79510M (X14, IC65)

Pin No.	Pin Name	I/O	Pin Description
2	VC1IN	I	Input of C signal for S-video terminal.
4	NFBCG	-	Negative feed-back pin of amplifier (unused).
6	VC2IN	I	Input of C signal for DVD.
8	VC3IN	I	Input of C signal for video 3.
10	VC4IN	I	Input of C signal for video 2.
12	VC5IN	I	Input of C signal for video 1.
14	VC6IN	I	Unused.
15	GND	-	GND
16	MUTE	-	Mute time constant changing pin.
17~19	MUTE(3~1)	-	Changeover pin of mute.
20	CTL 3	I	Video switch control 3 input.
21	CTL 2	I	Video switch control 2 input.
22	CTL 1	I	Video switch control 1 input.
23	VCOUT 2	O	Output of C signal for DVD.
24	VC OUT1	O	Output of C signal for video 1.
25	VCC-	-	Negative power supply.
26	VBOUT 2	O	Output of Y signal for DVD.
27	VBOUT 1	O	Output of Y signal for video 1.
28	VCCDR-	-	Negative power supply.
29	VAOUT 2	O	Monitor output of ROOM B.
30	VAOUT 1	O	REC output of video 1.
33	VCCDR+	-	Positive power supply.
35	VA6IN	I	Unused.
37	NFBAG	-	Negative feed-back pin of amplifier (unused).
39	VA5 IN	I	Input of video signal for video 1.
41	VA4 IN	I	Input of video signal for video 2.
43	VA3 IN	I	Input of video signal for video 3.
45	VA2 IN	I	Input of DVD signal.
47	VAIN	I	Input of video signal for composite.
50	VB1IN	I	Input of Y signal for S-video terminal.
52	NFBBG	-	Negative feed-back pin of amplifier (unused).
54	VB2 IN	I	Input of Y signal for DVD.
56	VB3 IN	I	Input of Y signal for video 3.
58	VB4 IN	I	Input of Y signal for video 2.
60	VB5 IN	I	Input of Y signal for video 1.
62	VB6 IN	I	Unused.
63	VCC+	-	Positive power supply.

6-7 Serial in / Parallel out Driver : BU2090F (X14, IC74)

Pin No.	Pin Name	I/O	Pin Description
1	VSS	-	GND
2	DATA	I	Serial data input.
3	CLOCK	I	Shift clock of data.
4~15	OUT1~OUT12	O	Parallel data output (N ch Open Drain FET). Latch Data: L / H Output FET: ON / OFF
16	VDD	-	Power supply.

CIRCUIT DESCRIPTION

6-8 VFD Display Controller Driver : LC75711NED (X14, IC78)

Pin No.	Pin Name	I/O	Pin Description
1~35 36~38	AM1~AM35 AA1~AA3	O	Output pin of Anode.
39~43	AA4~AA8/ G16~G12	O	Output pin of Anode and Grid.
44~54	G11~G1	O	Output pin of Grid.
55	VFL	-	Power supply for driver section.
56	TEST	-	Connected to be ground.
57	VSS	-	GND
58	OSCO	O	Crystal oscillation circuit output.
59	OSCI	I	Crystal oscillation circuit input.
60	VDD	-	Power supply for logic section (+5.0V).
61	RES	I	Input pin of system reset.
62 63 64	CE CL DI	I I I	Serial data transfer pin. Chip enable input. Synchronism clock input. Transfer data input.

6-9 RDS Demodulator IC : BU1923 (X14, IC81) E/T Type Only

Pin No.	Pin Name	I/O	Pin Description
1	QUAL	O	Output signal of demodulation quality.
2	RDATA	O	RDS Demodulation data output.
3	VREF	-	Reference voltage connection pin.
4	MUX	I	Composite signal input.
5	VDD1	-	Analog power supply (+5.0V).
6	VSS1	-	Analog ground.
7	VSS3	I	Comparator input.
8	CMP	O	Comparator output.
9	T2	I	Connected to ground.
10	T1	I	Connected to ground.
11	VSS2	-	Connected to ground.
12	VDD2	-	Digital power supply (+5.0V).
13	XI	I	Crystal oscillator (4.332MHz) output.
14	X0	O	Crystal oscillator (4.332MHz) input.
15	NC	-	Unused.
16	RCLK	O	Demodulation clock (1.1875MHz) output.

6-10 Composite Selector : NJM2284D (X25, IC101)

Pin No.	Pin Name	I/O	Pin Description
1	IN1B	I	Composite Cr signal input.
2,7,12	CTL(1~3)	I	Video switch control input.
3	OUT1	O	Composite Cr signal output.
4,10,15	GND(1~3)	-	GND
5	OUT2	O	Composite Cb signal output.
6	OUT3	O	Composite Y signal output.
8	IN3A	I	Composite Y signal input.
9	IN3B	I	Composite Y signal input.
11	IN2A	I	Composite Cb signal input.
13	V	-	Power supply
14	IN2B	I	Composite Cb signal input.
16	IN1A	I	Composite Cr signal input.

CIRCUIT DESCRIPTION

6-11 3 Channel 75ΩDriver : BA7666FS (X25, IC102)

Pin No.	Pin Name	I/O	Pin Description
1	MUTE	I	Mute control pin.
2	INA	I	Composite Y signal input.
3,5,8	GND	-	Ground pin.
4	INB	I	Composite Cb signal input.
6,11	N.C.	-	Unused.
7	INC	I	Composite Cr signal input.
9	OUTC2	O	Output of the composite Cr signal.
10	OUTC1	O	Output of the composite Cr signal.
12	OUTB2	O	Output of the composite Cb signal.
13	OUTB1	O	Output of the composite Cb signal.
14	OUTA2	O	Output of the composite Y signal.
15	OUTA1	O	Output of the composite Y signal.
16	VCC	-	Power supply pin.

6-12 PLL Frequency Synthesizer LSI : LC72131M (Tuner Assy IC2)

Pin No.	Pin Name	I/O	Pin Description
1	X IN	I	Crystal resonator connection.
2	CE	I	Chip enable.
3	DI	I	Input serial data.
4	CL	I	Used as the synchronization clock when serial data is input to the DI(pin 3), or when serial data is output DO(pin 5).
5	DO	O	Outputs serial data.
6	$\overline{B01}$	O	• Dedicated output pins. • The output states are determined by B01 to B04 in the serial data. "Data" =0 : Open "Data" =1 : Low • These pins go to the open state after the power-on reset.
7	$\overline{B02}$		
8	$\overline{B03}$		
9	$\overline{B04}$		
10,12	I01, I02	I/O	Pins used for both input and output. The input or output state is determined by bits I0C1and I0C2 in the serial data. "Data" = 0 : Open, "Data" = 1: Low
11	IF IN	I	IF count input.
13	AM IN	I	Local oscillator signal input.
14	FM IN	I	Local oscillator signal input.
15	VDD	-	Power supply.
16	PD	O	PLL charge pump output.
17, 18	AIN AOUT	I O	The MOS transistor used for the PLL active low-pass filter.
19	VSS	-	Ground.
20	X OUT	O	Crystal resonator connection.

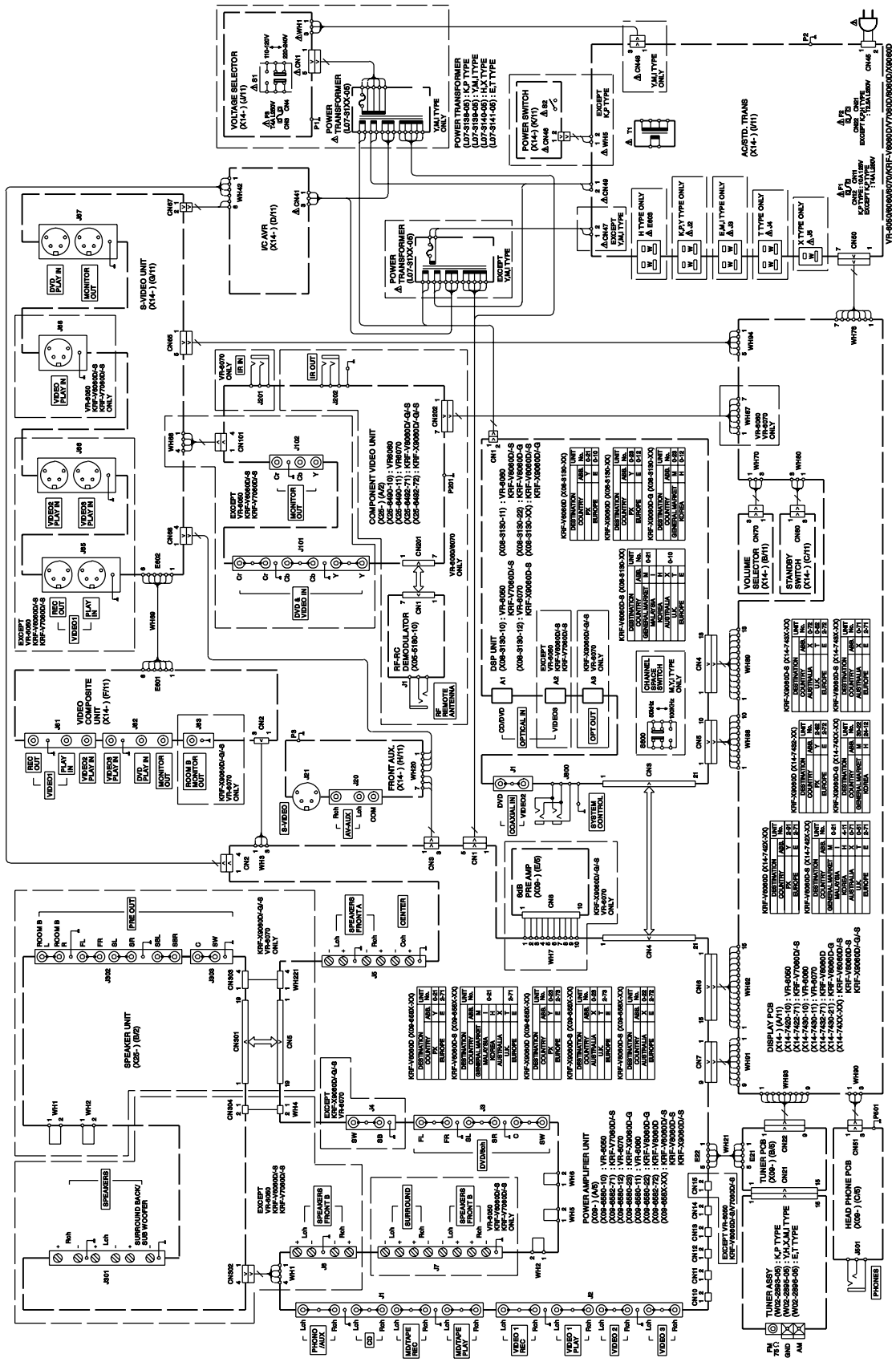
ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
AUDIO SECTION		SPEAKER : A					
<1>	IDLE CURRENT	–	CN11, FL ch. CN10, FR ch. CN14, SL ch. CN13, SR ch. CN12, C ch. CN15, SW ch. X09(A/4)	(FRONT 2ch MODE) Volume: Minimum	VR1(FL) VR2(FR) VR3(SL) VR4(SR) VR5(CENTER) VR6(SUB WOOFER) X09(A/4)	Adjust every potentiometer 10 minutes later after turned the power on.	

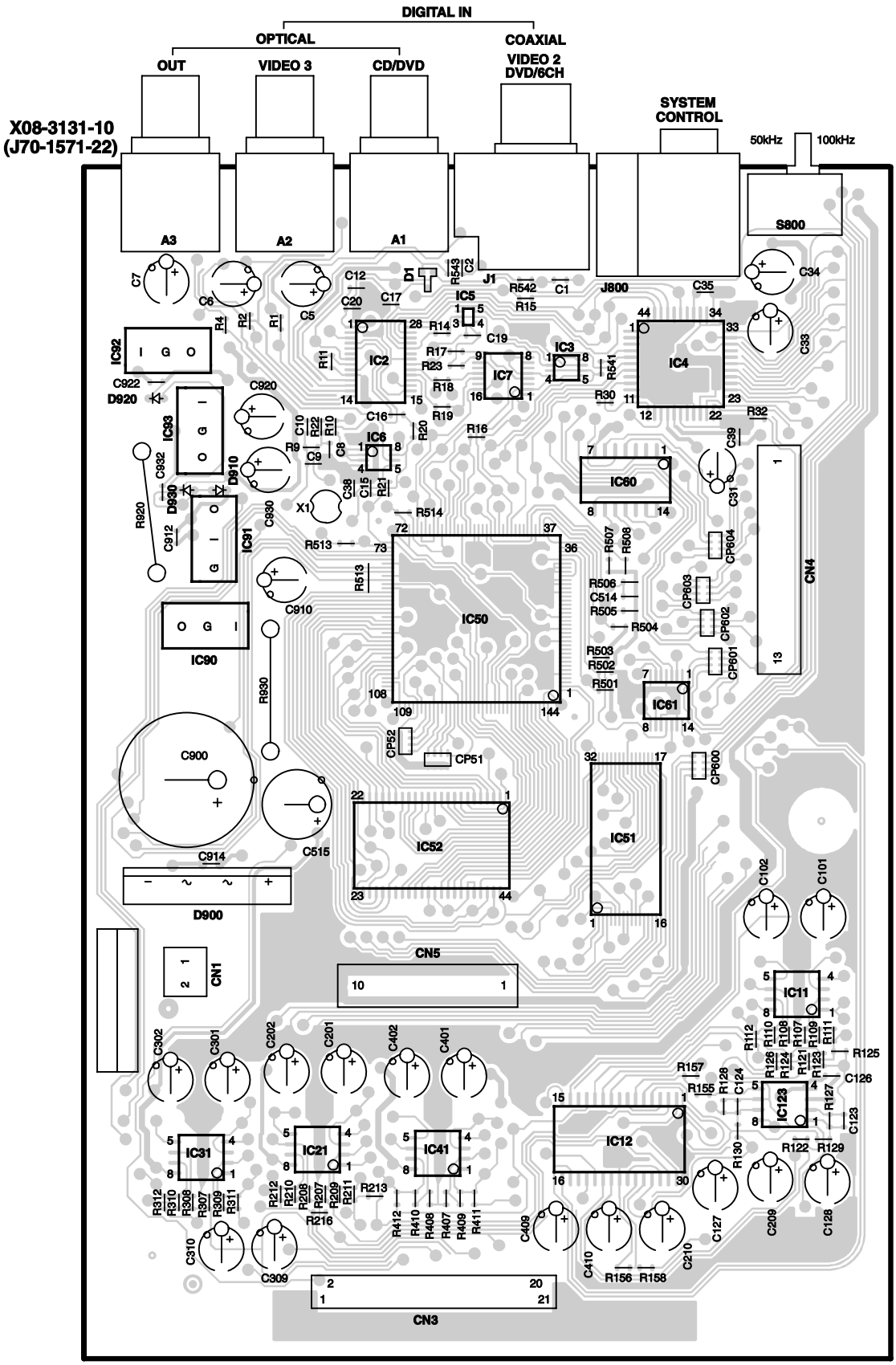
Idling Current Adjustment
All power amplifier stage need idling current adjustment after the installation of TRAIT transistor.
1. Connect a voltmeter to CN11 with the correct polarity as indicated by the PCB silk print.
2. Adjust the preset, VR1 to get 8.8mV (Idling current = 20mA) at the voltmeter reading.
3. Repeat step 1 and 2 for all other channels.

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

WIRING DIAGRAM

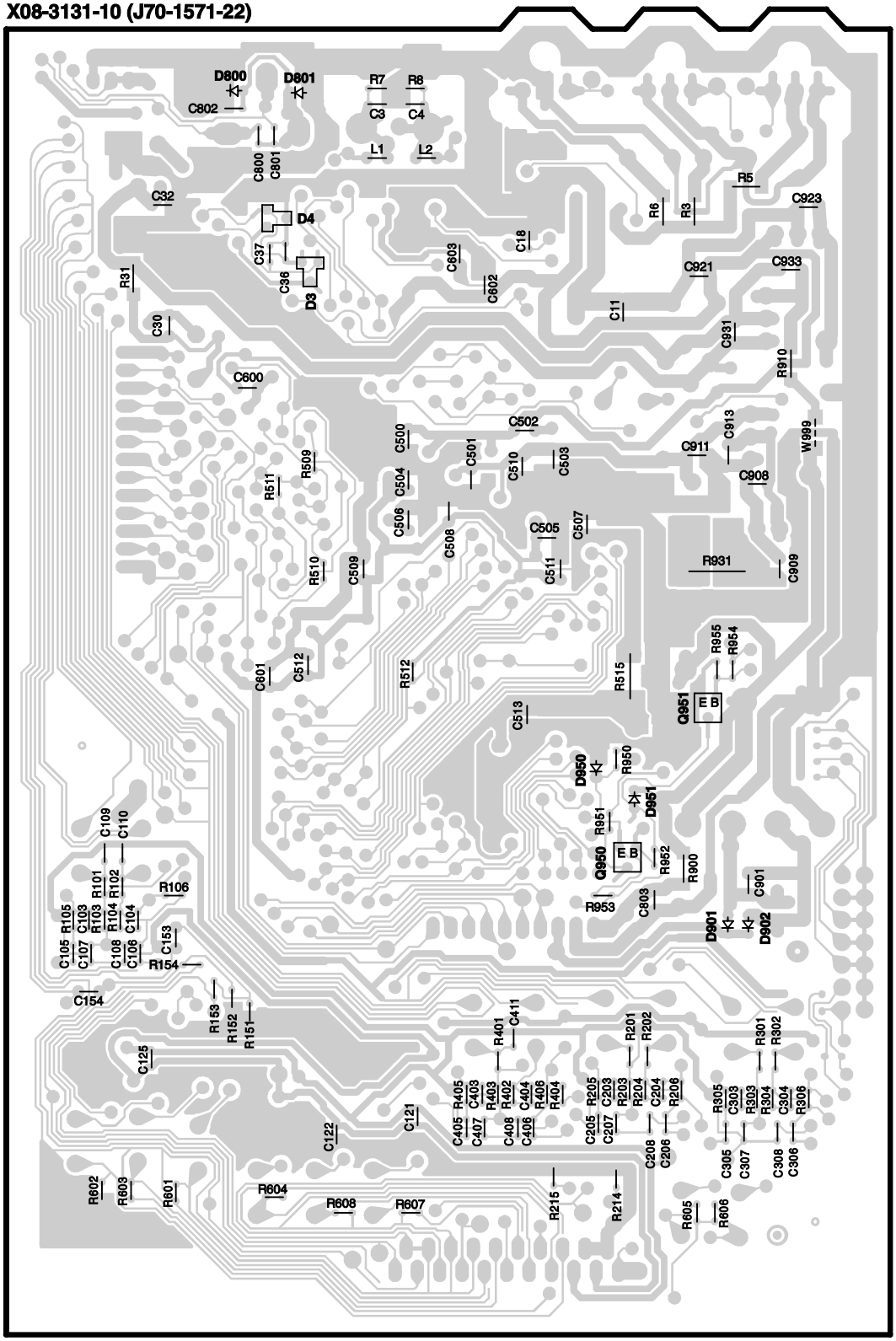


PC BOARD (Component side view)

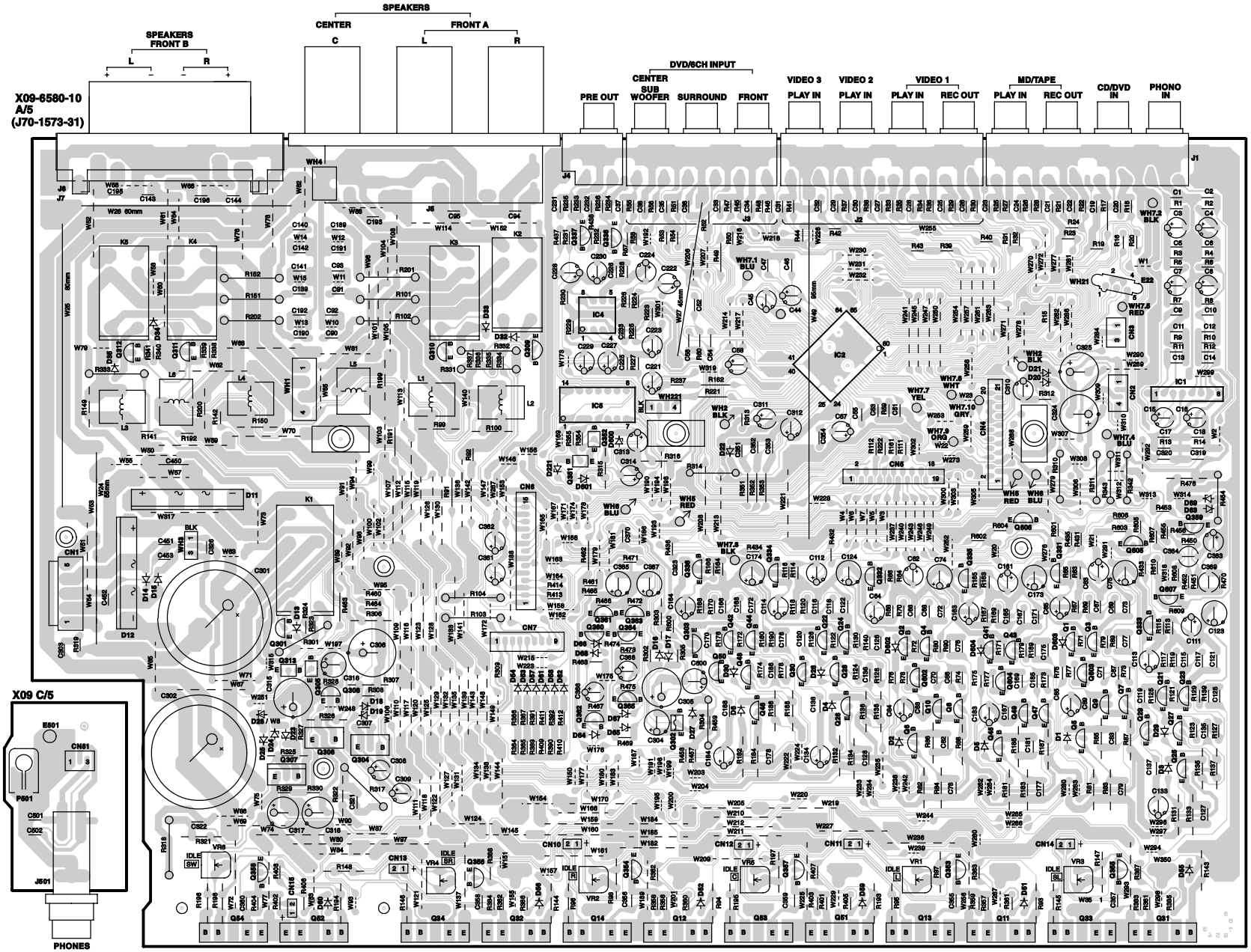


PC BOARD (Component side view)

X08-3131-10 (J70-1571-22)



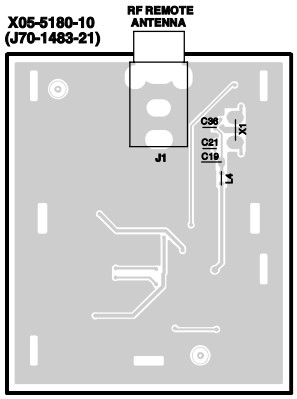
PC BOARD (Component side view)



Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

X05-5180-10 (J70-1483-21)



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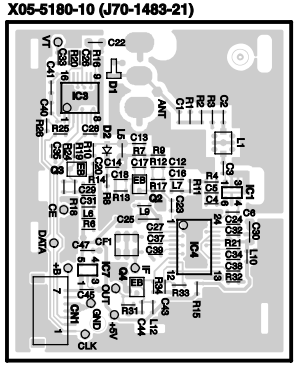
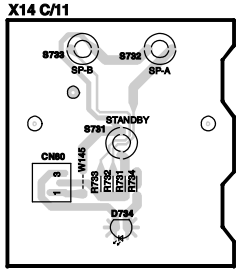
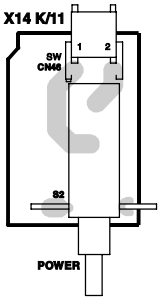


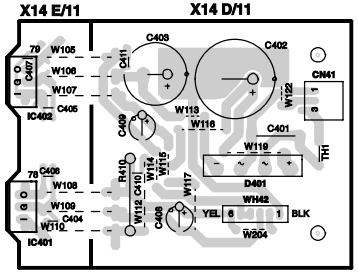
X14 C/11



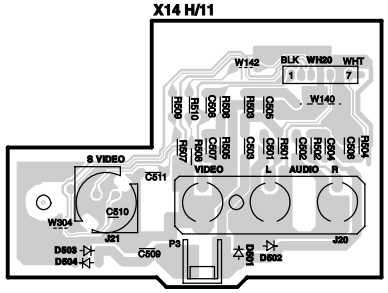
X14 K/11



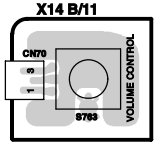
X14 E/11 X14 D/11



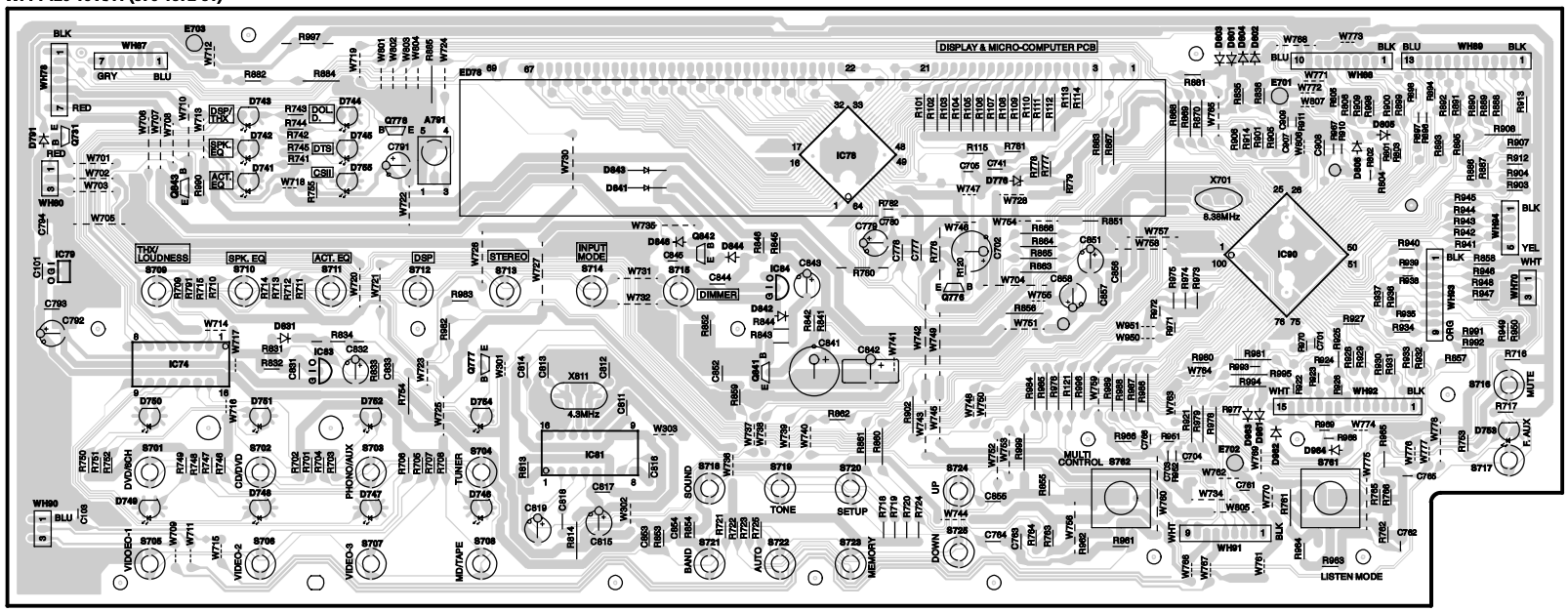
X14 H/11



X14 B/11



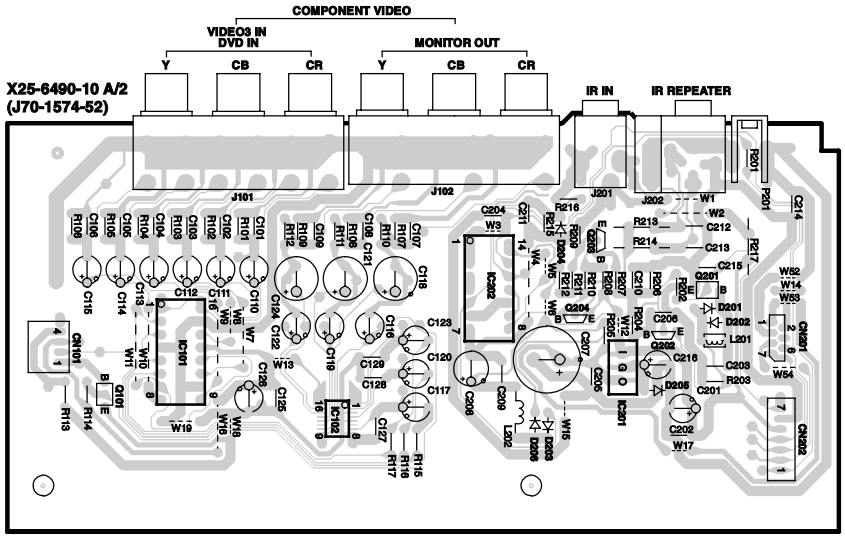
X14-7420-10 A/11 (J70-1572-31)

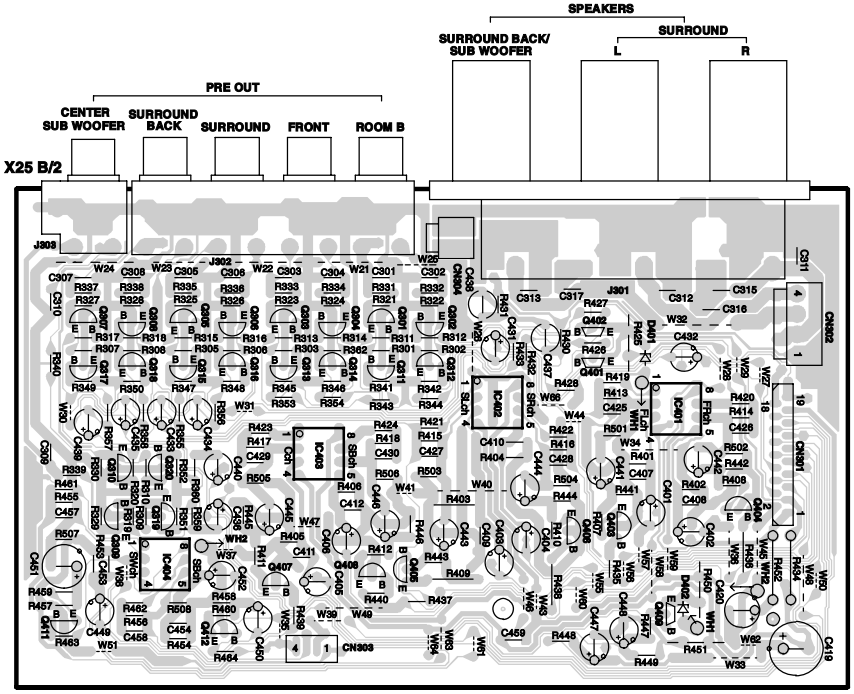


MC-Service

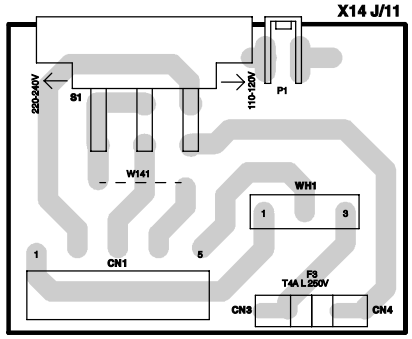
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

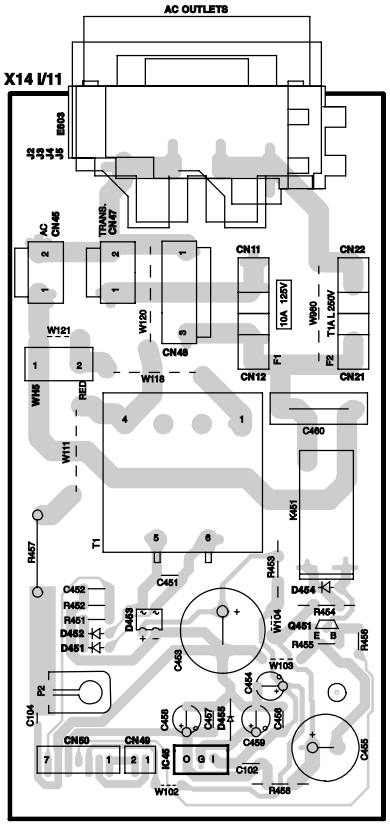


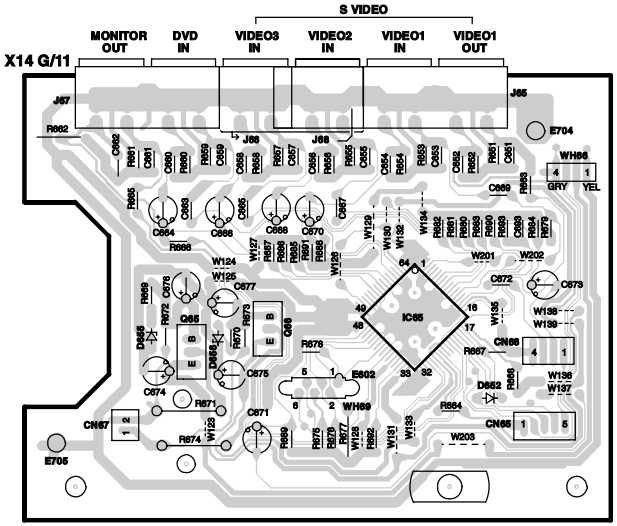


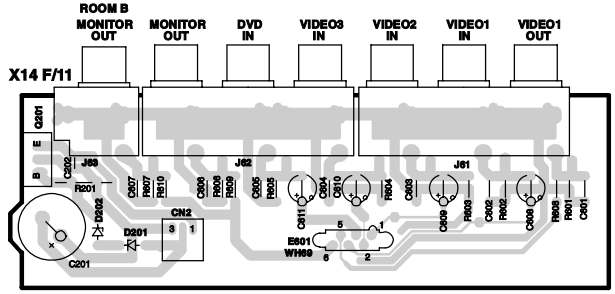
Refer to the schematic diagram for the value of resistors and capacitors.

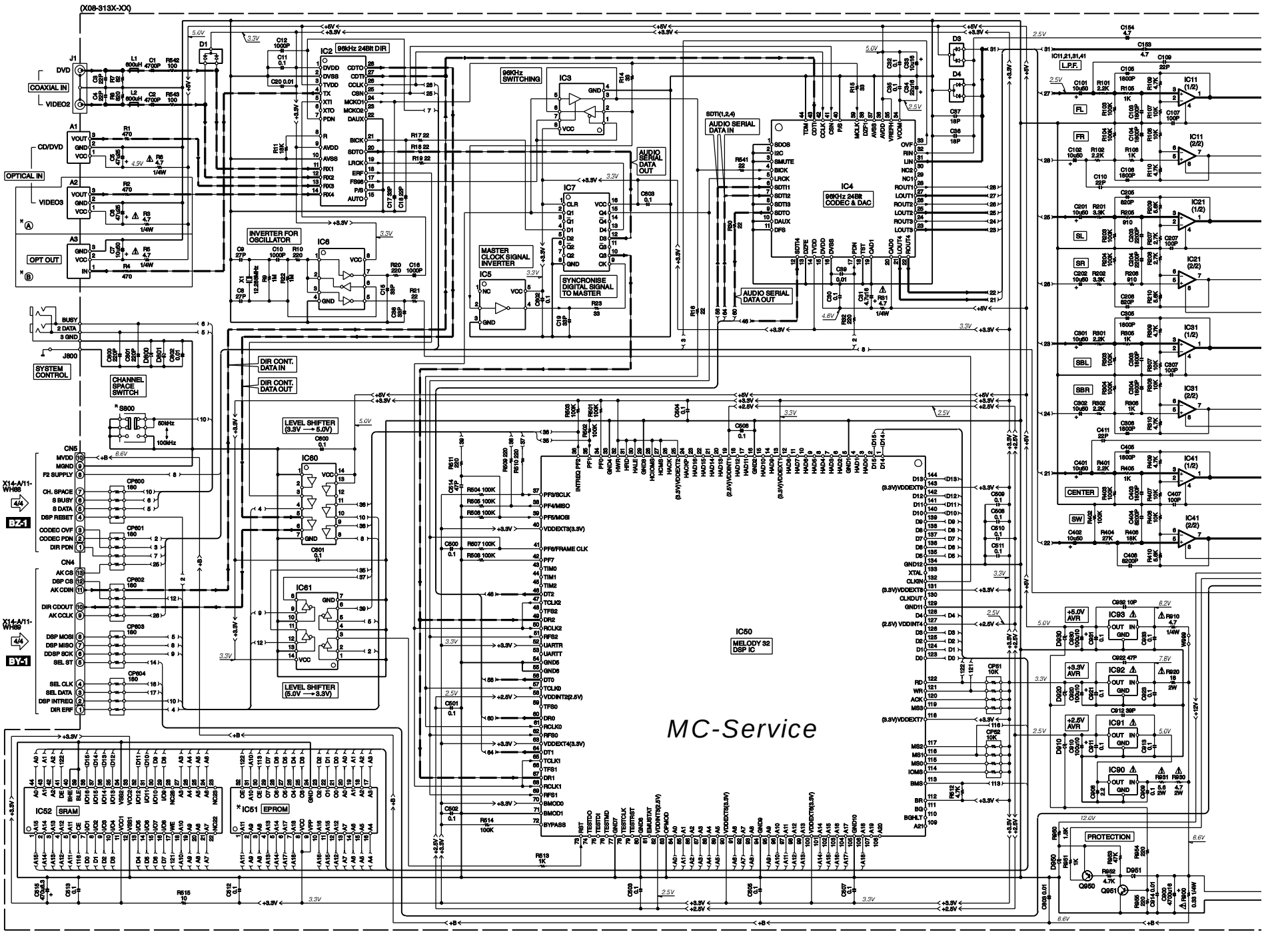


MC-Service

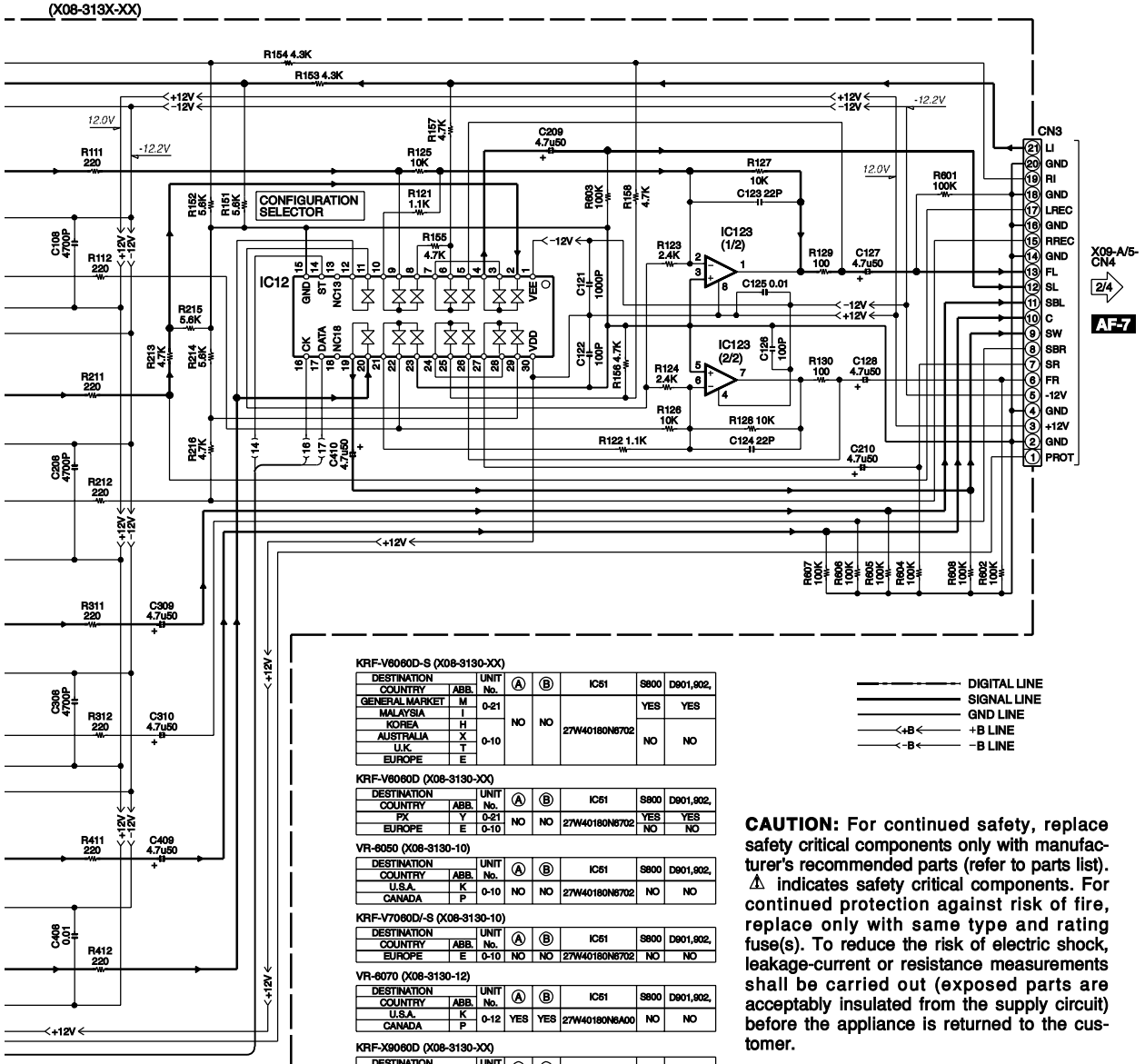







(X08-313X-XX)
MC-Service
IC2 96kHz 24Bit DIR
IC3
IC4 96KHz 24Bit CODEC & DAC
IC5
IC6
IC7
IC50 MELODY 32 DSP IC
IC51 EPROM
IC52 SRAM
IC60
IC61
IC90
IC91
IC92
IC93
IC11 (1/2)
IC21 (1/2)
IC31 (1/2)
IC41 (1/2)
IC11,21,31,41 L.P.F.
IC21 (2/2)
IC31 (2/2)
IC41 (2/2)
96KHz SWITCHING
AUDIO SERIAL DATA IN
AUDIO SERIAL DATA OUT
MASTER CLOCK SIGNAL INVERTER
SYNCRONISE DIGITAL SIGNAL TO MASTER
INVERTER FOR OSCILLATOR
LEVEL SHIFTER (3.3V → 5.0V)
LEVEL SHIFTER (5.0V → 3.3V)
DIR CONT. DATA IN
DIR CONT. DATA OUT
CHANNEL SPACE SWITCH
SYSTEM CONTROL
PROTECTION
COAXIAL IN
OPTICAL IN
CD/DVD
VIDEO2
VIDEO3
OPT OUT
FL
FR
SL
SR
SBL
SBR
CENTER
SW
BZ-1
BY-1
X14-A/11-WH88
+5.0V AVR
+3.3V AVR
+2.5V AVR

(X08-313X-XX)



KRF-V6060D-S (X08-3130-XX)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902,
COUNTRY	ABB.	No.					
GENERAL MARKET	M	0-21	NO	NO	27W40180N6702	YES	YES
MALAYSIA	I						
KOREA	H					NO	NO
AUSTRALIA	X	0-10					
U.K.	T						
EUROPE	E						

KRF-V6060D (X08-3130-XX)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902,
COUNTRY	ABB.	No.					
PX	Y	0-21	NO	NO	27W40180N6702	YES	YES
EUROPE	E	0-10				NO	NO

VR-6050 (X08-3130-10)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902,
COUNTRY	ABB.	No.					
U.S.A.	K	0-10	NO	NO	27W40180N6702	NO	NO
CANADA	P						

KRF-V7060D/-S (X08-3130-10)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902,
COUNTRY	ABB.	No.					
EUROPE	E	0-10	NO	NO	27W40180N6702	NO	NO

VR-6070 (X08-3130-12)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902,
COUNTRY	ABB.	No.					
U.S.A.	K	0-12	YES	YES	27W40180N6A00	NO	NO
CANADA	P						

KRF-X9060D (X08-3130-XX)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902,
COUNTRY	ABB.	No.					
PX	Y	0-23	YES	YES	27W40180N6A00	YES	YES
EUROPE	E	0-12				NO	NO

KRF-X9060D-G (X08-3130-XX)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902,
COUNTRY	ABB.	No.					
GENERAL MARKET	M	0-23	YES	YES	27W40180N6A00	YES	YES
KOREA	H	0-12				NO	NO

KRF-X9060D-S (X08-3130-12)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902,
COUNTRY	ABB.	No.					
AUSTRALIA	X	0-12	YES	YES	27W40180N6A00	NO	NO
U.K.	T						
EUROPE	E						

VR-6060 (X08-3130-11)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902,
COUNTRY	ABB.	No.					
U.S.A.	K	0-11	YES	NO	27W40180N6902	NO	NO
CANADA	P						

KRF-V6060D-G (X08-3130-22)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902,
COUNTRY	ABB.	No.					
GENERAL MARKET	M	0-22	YES	NO	27W40180N6902	YES	YES

KRF-V6060D-S (X08-3130-11)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902,
COUNTRY	ABB.	No.					
AUSTRALIA	X	0-11	YES	NO	27W40180N6902	NO	NO
EUROPE	E						

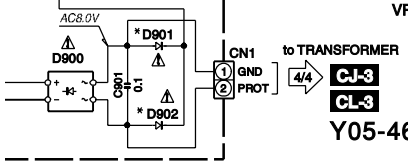
KRF-V6060D (X08-3130-11)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902,
COUNTRY	ABB.	No.					
EUROPE	E	0-11	YES	NO	27W40180N6902	NO	NO

IC2 : AK4112BVF
IC3 : TC7WH241FU
IC4 : AK4529-VQ
IC5 : TC7SHU04FU
IC6 : TC7WU04FU
IC7 : TC74VHC175FT
IC11,21,31,41,123 : NJM4565M or NJM4565MD
IC12 : NJU7311AM
IC50 : ADSST-MEL322
IC51 : *
IC52 : A61L6316-12V
IC60 : TC74HCT7007AF
IC61 : TC74VHC125FT
IC91 : NJU7223F25
IC92 : BA033T
IC90,93 : BA05T

Q950 : 2SB1218A(Q,R) or 2SA1576A(R,S)
Q951 : 2SD1819A(Q,R) or 2SC4081(R,S)

D1,3 : DAN202U or 1SS301 or MA142WK
D4 : DAP202U or 1SS300 or MA142WA
D800,801,901,902,951 : MA111
D900 : D2SBA20F03
D910,920 : HZU3.9(B2) or UDZ3.9B
D930 : HZU5.6(B2) or UDZ5.6B
D950 : HZU5.1(B2) or UDZ5.1B



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

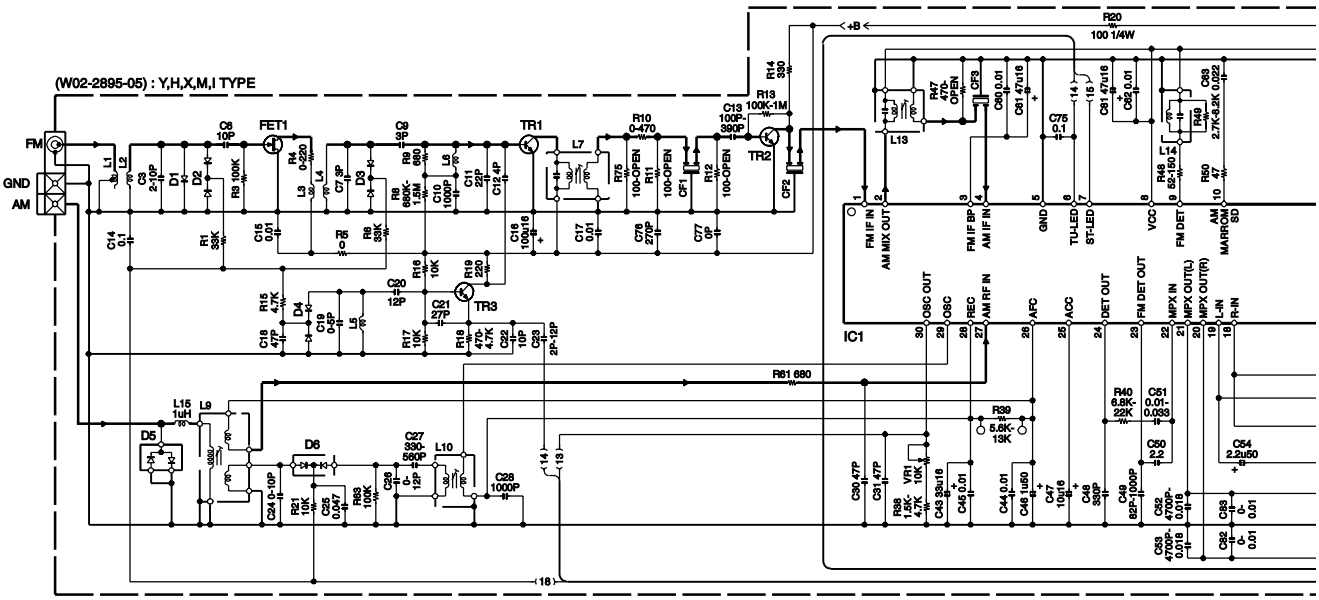
MC-Service

VR-6050/6060/6070/KRF-V6060D/V7060D/V8060D/X9060D (1/4)

Y05-4660-10

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

KENWOOD



VR-6050 (X09-6580-10)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓓ Ⓕ	Ⓒ Ⓔ	C64,65, 163	C74,75, 173	C82,83, 161	C84,85, 183	C90,91,139, 140,189	C92,93,141,142, 190-192,227,228,326	C143, 144	C301, 302	C307	C322	C363	C369	CN5, 15	D23	D24	D25	D26	J4, 7	J6
COUNTRY	ABB.																						
U.S.A.	K	0-10	NO	YES	3.3u50	100u25	10P	22u50	0.1	NO	YES	4700u75 C90-3984-05	220P	15P	22u16	33u16	NO	MTZJ10(B) or RD10ES(B)	MTZJ15(B) or RD15ES(B)	MTZJ24(B) or RD24ES(B)	NO	YES	NO
CANADA	P																						

KRF-V6060D (X09-658X-XX)

DESTINATION		UNIT No.	Ⓐ	Ⓑ Ⓓ Ⓕ	Ⓒ Ⓔ	C64,65, 163	C74,75, 173	C82,83, 161	C84,85, 183	C90-93,139- 142,189,191	C143, 144	C190,192, 227,228,326	C301, 302	C307	C322	C363	C369	CN5, 15	D23	D24	D25	D26	J4, 7	J6
COUNTRY	ABB.																							
PX	Y	0-21	NO	NO	YES	3.3u50	100u25	10P	22u50	0.22	YES	NO	4700u75 C90-3984-05	220P	15P	22u16	33u16	NO	MTZJ11(B) or RD11ES(B)	MTZJ7.5(B) or RD7.5ES(B)	MTZJ30(B) or RD30ES(B)	NO	YES	NO
EUROPE	E	2-71	YES																MTZJ10(B) or RD10ES(B)	MTZJ10(B) or RD10ES(B)	MTZJ24(B) or RD24ES(B)			

KRF-V6060D-S (X09-658X-XX)

DESTINATION		UNIT No.	Ⓐ	Ⓑ Ⓓ Ⓕ	Ⓒ Ⓔ	C64,65, 163	C74,75, 173	C82,83, 161	C84,85, 183	C90-93,139- 142,189,191	C143, 144	C190,192, 227,228,326	C301, 302	C307	C322	C363	C369	CN5, 15	D23	D24	D25	D26	J4, 7	J6
COUNTRY	ABB.																							
GENERAL MARKET	M	0-21	NO	NO	YES	3.3u50	100u25	10P	22u50	0.22	YES	NO	4700u75 C90-3984-05	220P	15P	22u16	33u16	NO	MTZJ11(B) or RD11ES(B)	MTZJ7.5(B) or RD7.5ES(B)	MTZJ30(B) or RD30ES(B)	NO	YES	NO
MALAYSIA	I																							
KOREA	H																							
AUSTRALIA	X																							
U.K.	T	2-71	YES																MTZJ10(B) or RD10ES(B)	MTZJ10(B) or RD10ES(B)	MTZJ24(B) or RD24ES(B)			
EUROPE	E																							

KRF-V7060D/-S (X09-6582-71)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓔ	Ⓑ Ⓓ Ⓕ	C64,65, 163	C74,75, 173	C82,83, 161	C84,85, 183	C90-93,139- 142,189,191	C143, 144	C190,192, 227,228,326	C301, 302	C307	C322	C363	C369	CN5, 15	D23,24	D25	D26	J4, 7	J6	K2-5	L6	Q313
COUNTRY	ABB.																								
EUROPE	E	2-71	YES	NO	3.3u50	100u25	10P	22u50	0.22	YES	NO	4700u75 C90-3984-05	220P	15P	22u16	33u16	NO	MTZJ10(B) or RD10ES(B)	MTZJ24(B) or RD24ES(B)	NO	YES	NO	S76-0098-05	NO	NO

VR-6070 (X09-6580-12)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓓ Ⓕ	Ⓒ Ⓔ	C64,65, 163	C74,75, 173	C84,85, 183,363	C82,83,92,93,141 -144,181,191,192	C90,91,139, 140,189,190	C227, 228	C301, 302	C322	C326	C307	C369	CN5, 15	D23	D24	D25	D26	J4, 7	J6	K2-5
COUNTRY	ABB.																						
U.S.A.	K	0-12	YES	NO	3.3u100	220u10	47u25	NO	0.1	YES	1000u74 C90-5749-05	12P	22P	180P	22u25	YES	MTZJ10(B) or RD10ES(B)	MTZJ15(B) or RD15ES(B)	MTZJ24(B) or RD24ES(B)	NO	NO	YES	S76-0045-15
CANADA	P																						

KRF-X9060D (X09-658X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓓ Ⓕ	Ⓒ Ⓔ	C64,65, 163	C74,75, 173	C82,83,143, 144,181	C84,85, 183,363	C90-93,139 -142,189-192	C227, 228	C301, 302	C307	C322	C326	C369	CN5, 15	D23	D24	D25	D26	J4, 7	J6	K2-5	L6
COUNTRY	ABB.																							
PX	Y	0-23	YES	NO	3.3u100	220u10	NO	47u25	0.22	YES	1000u74 C90-5749-05	180P	12P	22P	22u25	YES	MTZJ11(B) or RD11ES(B)	MTZJ7.5(B) or RD7.5ES(B)	MTZJ30(B) or RD30ES(B)	NO	NO	YES	S76-0045-15	YES
EUROPE	E	2-73															MTZJ10(B) or RD10ES(B)	MTZJ10(B) or RD10ES(B)	MTZJ24(B) or RD24ES(B)	YES			S76-0098-05	

KRF-X9060D-G (X09-6580-23)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓓ Ⓕ	Ⓒ Ⓔ	C64,65, 163	C74,75, 173	C82,83,143, 144,181	C84,85, 183,363	C90-93,139 -142,189-192	C227, 228	C301, 302	C307	C322	C326	C369	CN5, 15	D23	D24	D25	D26	J4, 7	J6	K2-5	L6
COUNTRY	ABB.																							
GENERAL MARKET	M	0-23	YES	NO	3.3u100	220u10	NO	47u25	0.22	YES	1000u74 C90-5749-05	180P	12P	22P	22u25	YES	MTZJ11(B) or RD11ES(B)	MTZJ7.5(B) or RD7.5ES(B)	MTZJ30(B) or RD30ES(B)	NO	NO	YES	S76-0045-15	YES
KOREA	H																							

KRF-X9060D-S (X09-658X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓓ Ⓕ	Ⓒ Ⓔ	C64,65, 163	C74,75, 173	C82,83,143, 144,181	C84,85, 183,363	C90-93,139 -142,189-192	C227, 228	C301, 302	C307	C322	C326	C369	CN5, 15	D23	D24	D25	D26	J4, 7	J6	K2-5	L6
COUNTRY	ABB.																							
AUSTRALIA	X	0-23	YES	NO	3.3u100	220u10	NO	47u25	0.22	YES	1000u74 C90-5749-05	180P	12P	22P	22u25	YES	MTZJ11(B) or RD11ES(B)	MTZJ7.5(B) or RD7.5ES(B)	MTZJ30(B) or RD30ES(B)	NO	NO	YES	S76-0045-15	YES
U.K.	T	2-73															MTZJ10(B) or RD10ES(B)	MTZJ10(B) or RD10ES(B)	MTZJ24(B) or RD24ES(B)	YES			S76-0098-05	
EUROPE	E																							

VR-6060 (X09-6580-11)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ	Ⓕ	C64,65, 163	C74,75, 173	C82,83, 161	C84,85, 183	C90,91,139, 140,189,190	C92,93,141- 144,191,192,326	C227, 228	C301, 302	C307	C322	C363	C369	CN5	CN15	D23	D24	D25	D26	J4, 6	J7
COUNTRY	ABB.																							
U.S.A.	K	0-11	YES	NO	3.3u50	100u25	10P	22u50	0.1	NO	YES	4700u75 C90-3984-05	220P	15P	22u16	33u16	NO	YES	MTZJ10(B) or RD10ES(B)	MTZJ15(B) or RD15ES(B)	MTZJ24(B) or RD24ES(B)	NO	YES	NO
CANADA	P																							

KRF-V6060D-G (X09-6580-22)

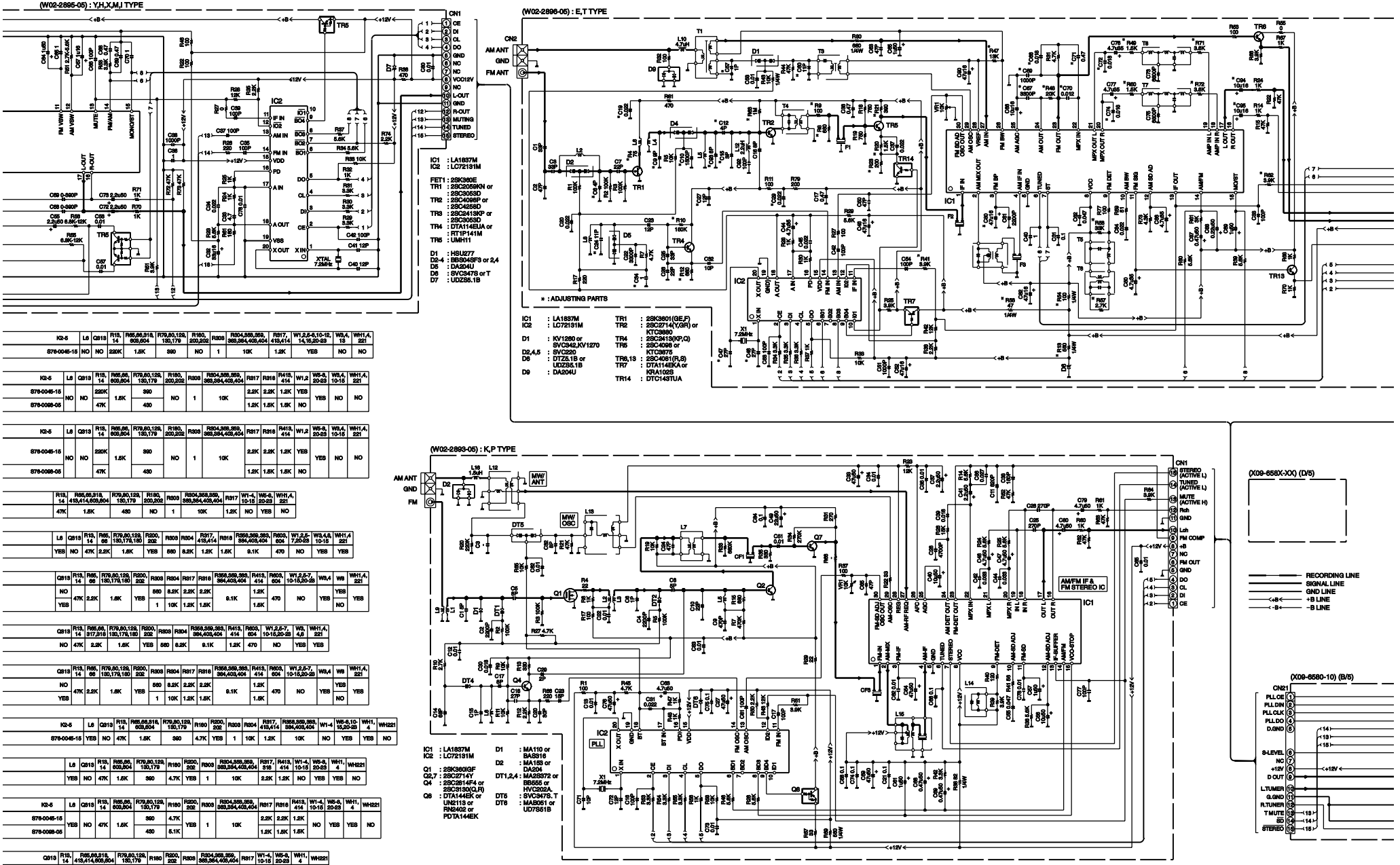
DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ	Ⓕ	C64,65, 163	C74,75, 173	C82,83, 161	C84,85, 183	C90-93,139- 142,189-192	C143, 144,326	C227, 228	C301, 302	C307	C322	C363	C369	CN5	CN15	D23	D24	D25	D26	J4, 6	J7	K2-5
COUNTRY	ABB.																								
GENERAL MARKET	M	0-22	YES	NO	3.3u50	100u25	10P	22u50	0.22	NO	YES	4700u75 C90-3984-05	220P	15P	22u16	33u16	NO	YES	MTZJ11(B) or RD11ES(B)	MTZJ7.5(B) or RD7.5ES(B)	MTZJ30(B) or RD30ES(B)	NO	YES	NO	S76-0045-15

KRF-V6060D-S (X09-658X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ	Ⓕ	C64,65, 163	C74,75, 173	C82,83, 161	C84,85, 183	C90-93,139- 142,189-192	C143, 144,326	C227, 228	C301, 302	C307	C322	C363	C369	CN5	CN15	D23	D24	D25	D26	J4, 6	J7
COUNTRY	ABB.																							
AUSTRALIA	X	0-22	YES	NO	3.3u50	100u25	10P	22u50	0.22	NO	YES	4700u75 C90-3984-05	220P	15P	22u16	33u16	NO	YES	MTZJ11(B) or RD11ES(B)	MTZJ7.5(B) or RD7.5ES(B)	MTZJ30(B) or RD30ES(B)	NO	YES	NO
EUROPE	E	2-72																	MTZJ10(B) or RD10ES(B)	MTZJ10(B) or RD10ES(B)	MTZJ24(B) or RD24ES(B)			

KRF-V8060D (X09-6582-72)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ	Ⓕ	C64,65, 163	C74,75, 173	C82,83, 161	C84,85, 183	C90-93,139- 142,189-192	C143, 144,326	C227, 228	C301, 302	C307	C322	C363	C369	CN5	CN15	D23,24	D25	D26	J4, 6	J7	K2-5	L6
COUNTRY	ABB.																								
EUROPE	E	2-72	YES	NO	3.3u50	100u25	10P	22u50	0.22	NO	YES	4700u75 C90-3984-05	220P	15P	22u16	33u16	NO	YES	MTZJ10(B) or RD10ES(B)	MTZJ24(B) or RD24ES(B)	NO	YES	NO	S76-0098-05	YES



* : ADJUSTING PARTS

IC1 : LA1837M
IC2 : LC72131M

FET1 : 2SK3602E
TR1 : 2SC3059KN or 2SC3063D
TR2 : 2SC4096P or 2SC4258D
TR3 : 2SC2413KP or 2SC3063D
TR4 : DTA114EUA or RT1P141M
TR5 : UMH11

D1 : HSU277
D2-4 : BBB3045F3 or 2,4
D5 : DA204U
D6 : SVC347S or T
D7 : UDZS6.1B

IC1 : LA1837M
IC2 : LC72131M
TR1 : 2SK3601(GE,F)
TR2 : 2SC2714(Y,GR) or KTC3880
TR4 : 2SC2413(KP,Q)
TR5 : 2SC4096 or KTC3875
TR6,13 : 2SC4061(R,S)
TR7 : DTA114EKA or KRA102S
TR14 : DTC143TUA
D1 : KV1260 or SVC342,KV1270
D2,4,5 : SVC220
D6 : DTZ6.1B or UDZS5.1B
D9 : DA204U

IC1 : LA1837M
IC2 : LC72131M
D1 : MA110 or BAS316
D2 : MA153 or DA204
DT1,2,4 : MA2S372 or BB555 or HVC202A
DT5 : SVC347S.T
DT6 : MA8051 or UD7S61B
Q1 : 2SK3903QF
Q2,7 : 2SC2714Y
Q4 : 2SC2814F4 or 2SC3130(Q,R)
Q6 : DTA144EK or UN2113 or RN2402 or PDTA144EK

K2-5	L6	Q813	R13, 14	R65,66,316, 603,604	R79,80,129, 130,179	R160, 200,202	R303	R304,355,359, 363,364,403,404	R317	R316	R413, 414	W1,2,5-6,10-12, 14,16,20-23	W3,4, 13	WH1,4, 221
S78-0045-15	NO	NO	220K	1.5K	390	NO	1	10K		2.2K	1.2K	YES	NO	NO

K2-5	L6	Q813	R13, 14	R65,66, 603,604	R79,80,129, 130,179	R160, 200,202	R303	R304,355,359, 363,364,403,404	R317	R316	R413, 414	W1,2	W5-8, 20-23	W3,4, 10-15	WH1,4, 221
S78-0045-15	NO	NO	220K	1.5K	390	NO	1	10K	2.2K	2.2K	1.2K	YES	YES	NO	NO
S78-0098-05			47K		430				1.2K	1.5K	1.5K	NO			

K2-5	L6	Q813	R13, 14	R65,66, 603,604	R79,80,129, 130,179	R160, 200,202	R303	R304,355,359, 363,364,403,404	R317	R316	R413, 414	W1,2	W5-8, 20-23	W3,4, 10-15	WH1,4, 221
S78-0045-15	NO	NO	220K	1.5K	390	NO	1	10K	2.2K	2.2K	1.2K	YES	YES	NO	NO
S78-0098-05			47K		430				1.2K	1.5K	1.5K	NO			

R13, 14	R65,66,316, 419,414,603,604	R79,80,129, 130,179	R160, 200,202	R303	R304,355,359, 363,364,403,404	R317	W1,4, 10-15	W5-8, 20-23	WH1,4, 221
47K	1.5K	430	NO	1	10K	1.2K	NO	YES	NO

L6	Q813	R13, 14	R65, 66	R79,80,129, 130,179,180	R200, 202	R303	R304	R317, 418,414	R316	R358,359,363, 364,403,404	R603, 604	W1,2,5-7, 20,23	W3,4,6, 10-15	WH1,4 221
YES	NO	47K	2.2K	1.8K	YES	560	8.2K	1.2K	1.5K	9.1K	470	NO	YES	YES

Q813	R13, 14	R65, 66	R79,80,129, 130,179,180	R200, 202	R303	R304	R317	R316	R358,359,363, 364,403,404	R415, 414	R603, 604	W1,2,5-7, 10-15,20-23	W3,4	W6	WH1,4, 221
NO	47K	2.2K	1.8K	YES	560	8.2K	2.2K	2.2K	9.1K	1.2K	470	NO	YES	YES	YES
YES					1	10K	1.2K	1.5K		1.5K				NO	

Q813	R13, 14	R65,66, 317,318	R79,80,129, 130,179,180	R200, 202	R303	R304	R358,359,363, 364,403,404	R413, 414	R603, 604	W1,2,5-7, 10-15,20-23	W3, 4,6	WH1,4, 221
NO	47K	2.2K	1.8K	YES	560	8.2K	9.1K	1.2K	470	NO	YES	YES

Q813	R13, 14	R65, 66	R79,80,129, 130,179,180	R200, 202	R303	R304	R317	R316	R358,359,363, 364,403,404	R415, 414	R603, 604	W1,2,5-7, 10-15,20-23	W3,4	W6	WH1,4, 221
NO	47K	2.2K	1.8K	YES	560	8.2K	2.2K	2.2K	9.1K	1.2K	470	NO	YES	YES	YES
YES					1	10K	1.2K	1.5K		1.5K				NO	

K2-5	L6	Q813	R13, 14	R65,66,316, 603,604	R79,80,129, 130,179	R160	R200, 202	R303	R304	R317, 318	R316	R358,359,363, 364,403,404	W1-4	W5-8,10-15, 20,22-23	WH1, 4	WH221
S78-0045-15	YES	NO	47K	1.5K	390	4.7K	YES	1	10K	1.2K		10K	NO	YES	YES	NO

L6	Q813	R13, 14	R65,66, 603,604	R79,80,129, 130,179	R160	R200, 202	R303	R304,355,359, 363,364,403,404	R317, 318	R413, 414	W1-4, 10-15	W5-8, 20-23	WH1, 4	WH221
YES	NO	47K	1.5K	390	4.7K	YES	1	10K	2.2K	1.2K	NO	YES	YES	NO

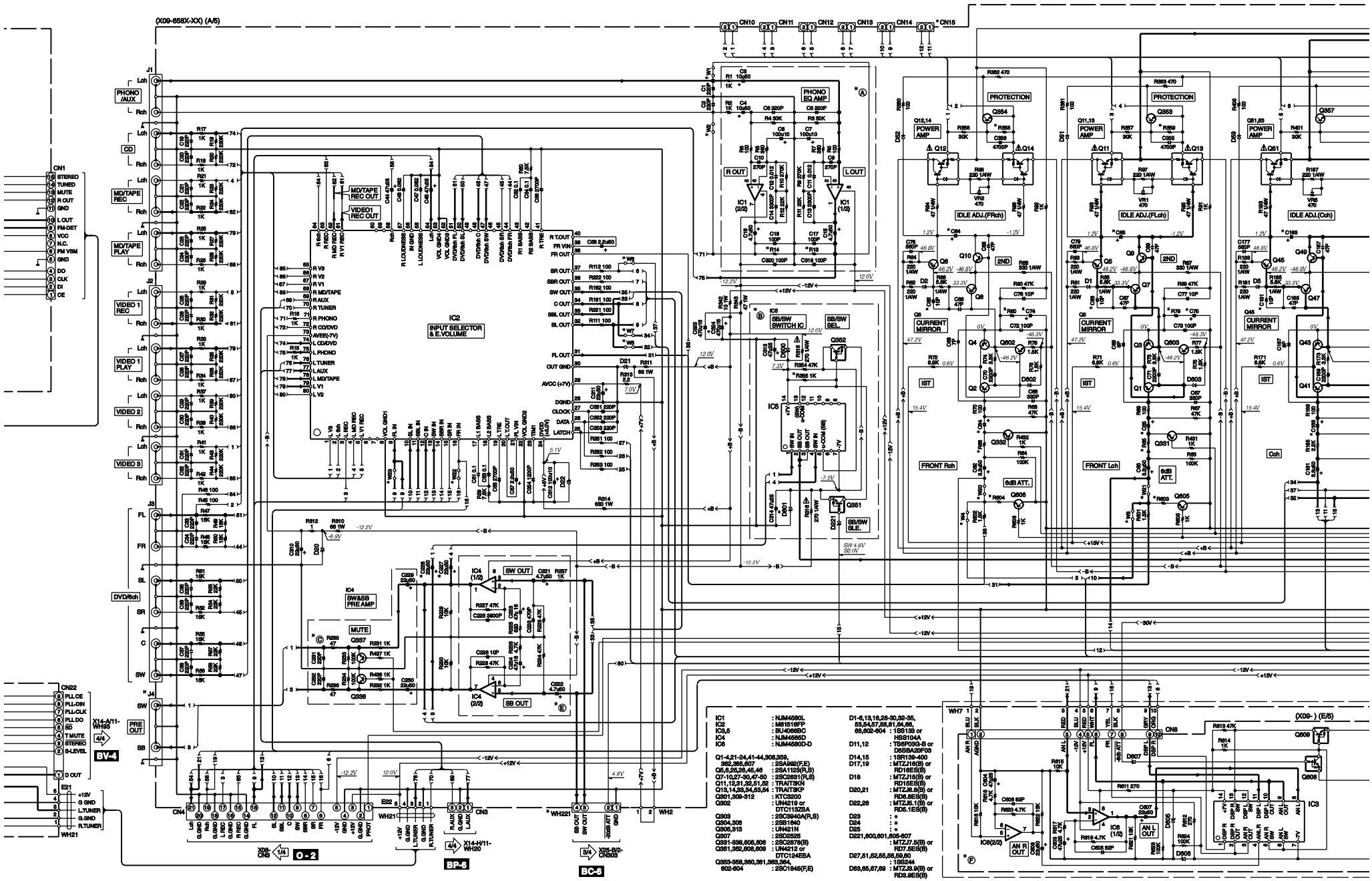
K2-5	L6	Q813	R13, 14	R65,66, 603,604	R79,80,129, 130,179	R160	R200, 202	R303	R304,355,359, 363,364,403,404	R317	R316	R413, 414	W1-4, 10-15	W5-8, 20-23	WH1, 4	WH221
S78-0045-15	YES	NO	47K	1.5K	390	4.7K	YES	1	10K			2.2K	2.2K	1.2K	NO	YES	YES	NO
S78-0098-05					430	5.1K						1.2K	1.5K	1.5K				

Q813	R13, 14	R65,66,315, 415,414,603,604	R79,80,129, 130,179	R160	R200, 202	R303	R304,355,359, 363,364,403,404	R317	W1-4, 10-15	W5-8, 20-23	WH1, 4	WH221
NO	47K	1.5K	430	5.1K	YES	1	10K	1.2K	NO	YES	YES	NO

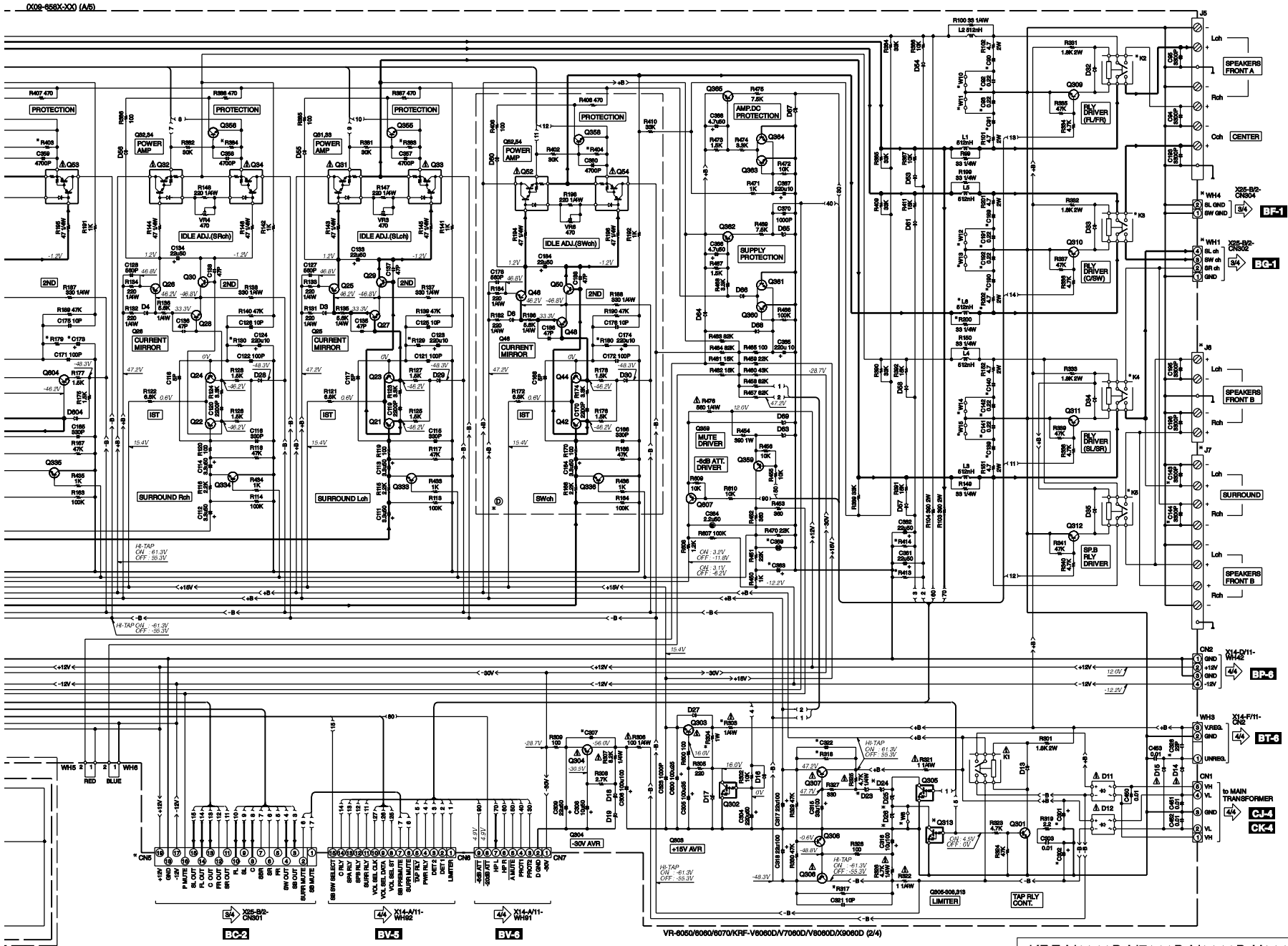
The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list right. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

MC-Service


(X09-658X-XX) (A/5)
CN1
CN10 CN11 CN12 CN13 CN14 *CN15
J1
PHONO /AUX
CD
MD/TAPE REC
MD/TAPE PLAY
VIDEO 1 REC
VIDEO 1 PLAY
VIDEO 2
VIDEO 3
J2
J3
J4
DVD/6ch
PRE OUT
IC2 INPUT SELECTOR & E.VOLUME
IC4 SW&SB PRE AMP
IC5 SB/SW SWITCH IC
IC6 SB/SW SEL.
PHONO EQ AMP
POWER AMP
PROTECTION
CURRENT MIRROR
IDLE ADJ.(FRch)
IDLE ADJ.(FLch)
IDLE ADJ.(Cch)
2ND
IST
FRONT Rch
FRONT Lch
Cch
6dB ATT.
SB/SW SLE.
MUTE
SW OUT
SB OUT
R OUT
L OUT
AN R OUT
AN L OUT
CN22
BV-4
BP-6
BC-6
D-2
(X09-) (E/5)
CN8
CN3
CN4
WH7
WH21
WH2
WH221
IC1 : NJM4580L
IC2 : M61516FP
IC3,5 : BU4066BC
IC4 : NJM4565D
IC6 : NJM4580D-D
Q1-4,21-24,41-44,308,359, 362,365,607 : 2SA992(F,E)
Q5,6,25,26,45,46 : 2SA1123(R,S)
Q7-10,27-30,47-50 : 2SC2631(R,S)
Q11,12,31,32,51,52 : TRAT3KN
Q13,14,33,34,53,54 : TRAT3KP
Q301,309-312 : KTC3200
Q302 : DTC113ZSA
Q303 : 2SC3940A(R,S)
Q304,306 : 2SB1940
Q305,313 : UN421N
Q307 : 2SD2525
Q351-358,605,606 : 2SC2878(S)
Q351,352,605,609 : UN4212 or DTC124ESA
Q353-356,360,361,363,364, 602-604 : 2SC1845(F,E)
D1-6,13,16,28-30,32-35, 53,54,57,58,61,64,66, 68,602-604 : 1SS133 or HSS104A
D11,12 : TS6P03G-B or DS6BA20F03
D14,15 : 1SR139-400
D17,19 : MTZJ16(B) or RD16ES(B)
D18 : MTZJ15(B) or RD15ES(B)
D20,21 : MTZJ6.8(B) or RD6.8ES(B)
D22,26 : MTZJ5.1(B) or RD5.1ES(B)
D23 : *
D24 : *
D25 : *
D221,600,601,605-607 : MTZJ7.5(B) or RD7.5ES(B)
D27,51,52,55,56,59,60 : 1SS244
D63,65,67,69 : MTZJ3.9(B) or RD3.9ES(B)

MC-Service



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VR-6050/6060/6070/KRF-V6060D/V7060D/V8060D/X9060D (2/4)

VR-6060 (X25-6490-10)

DESTINATION	UNIT	Ⓐ Ⓒ	Ⓓ	W5
COUNTRY ABB.	No.			
U.S.A. K	0-10	NO	YES	YES
CANADA P				

VR-6070 (X25-6490-11)

DESTINATION	UNIT	Ⓐ Ⓒ Ⓓ	W5
COUNTRY ABB.	No.		
U.S.A. K	0-11	YES	NO
CANADA P			

KRF-V6060D (X25-6492-71)

DESTINATION	UNIT	Ⓐ Ⓒ Ⓓ	W5
COUNTRY ABB.	No.		
EUROPE E	2-71	NO	NO

KRF-V6060D-G (X25-6492-71)

DESTINATION	UNIT	Ⓐ Ⓒ Ⓓ	W5
COUNTRY ABB.	No.		
GENERAL MARKET M	2-71	NO	NO

KRF-V6060D-S (X25-6492-71)

DESTINATION	UNIT	Ⓐ Ⓒ Ⓓ	W5
COUNTRY ABB.	No.		
EUROPE E	2-71	NO	NO
AUSTRALIA X			

KRF-X6060D (X25-6492-72)

DESTINATION	UNIT	Ⓐ	Ⓒ Ⓓ	W5
COUNTRY ABB.	No.			
EUROPE E	2-72	YES	NO	NO
PX Y				

KRF-X6060D-G (X25-6492-72)

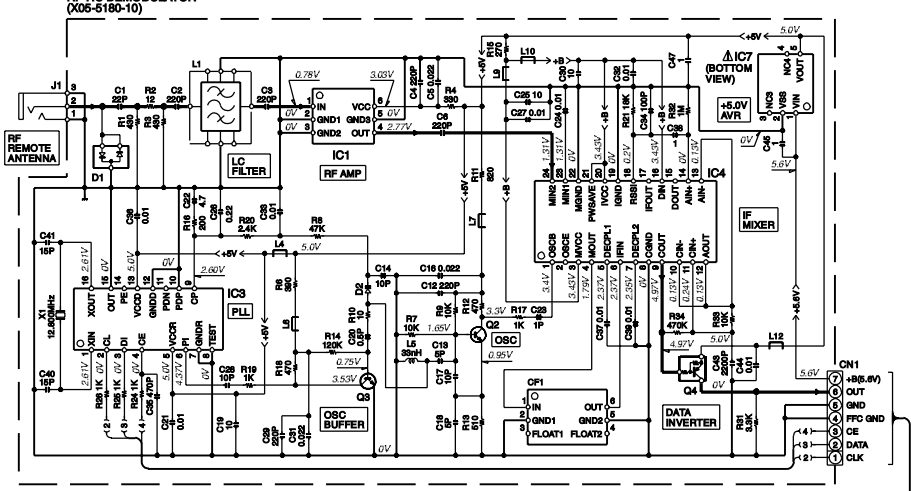
DESTINATION	UNIT	Ⓐ	Ⓒ Ⓓ	W5
COUNTRY ABB.	No.			
GENERAL MARKET M	2-72	YES	NO	NO
KOREA H				

KRF-X6060D-S (X25-6492-72)

DESTINATION	UNIT	Ⓐ	Ⓒ Ⓓ	W5
COUNTRY ABB.	No.			
EUROPE E				
U.K. T	2-72	YES	NO	NO
AUSTRALIA X				

SIGNAL LINE
GND LINE
+B LINE
−B LINE

RF-RC DEMODULATOR
(X05-5180-10)



RECEIVING FREQUENCY(MHz)/
VCO OSCILLATNG FREQUENCY(MHz)/
TUNING VOLTAGE(V) TABLE

RECEIVING FREQUENCY	VCO OSCILLATING FREQUENCY	TUNING VOLTAGE
309.5	298.8	2.38 ± 0.5
315.0	304.3	2.56 ± 0.5

IC1 : UPC2748T-E3
IC3 : LV2105V
IC4 : TK14583V
IC7 : XC6201P502MR

Q2,3 : 2SC5065(O ,Y)
Q4 : DTA124EUA

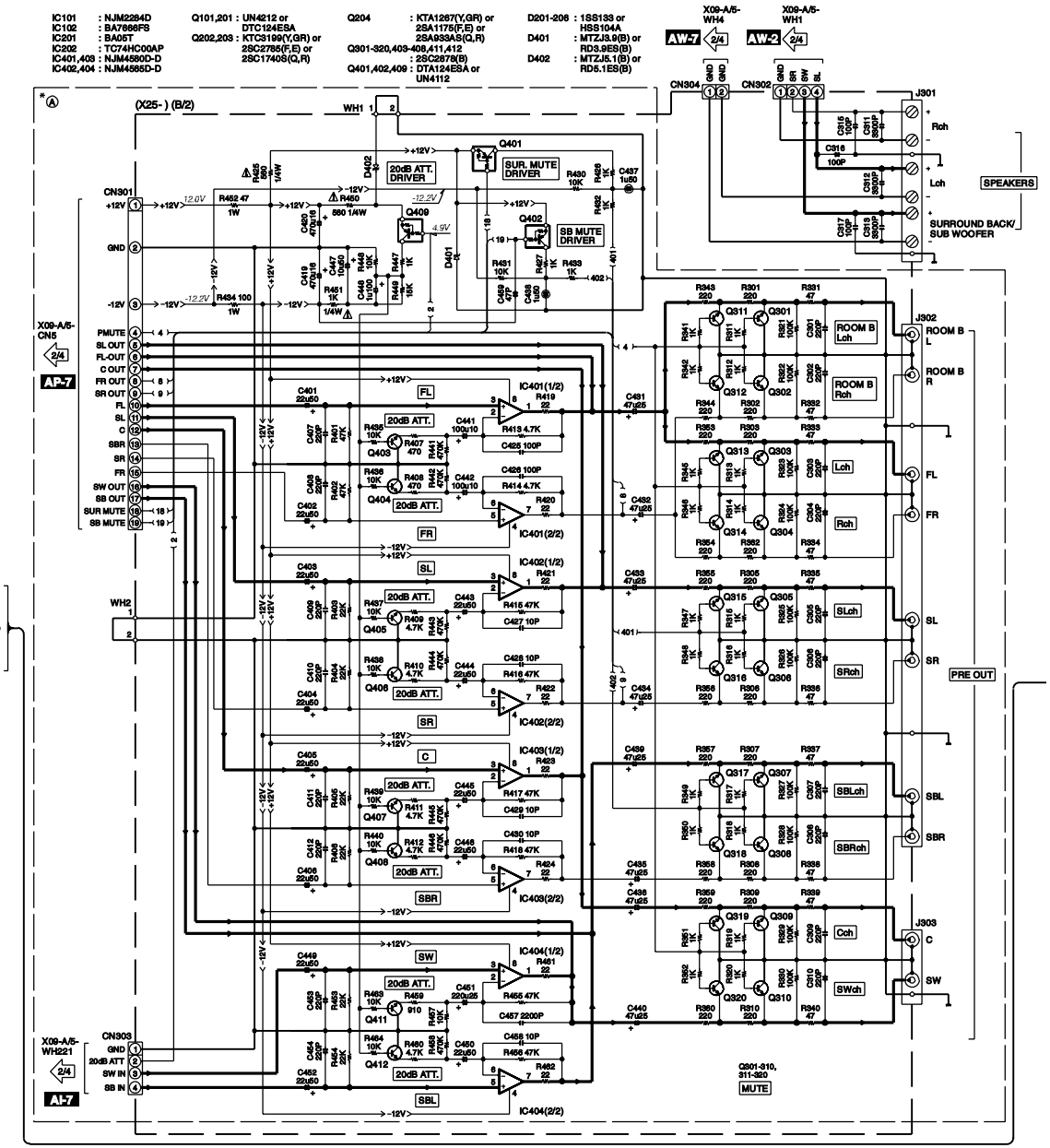
D1 : 1SS302
D2 : KV1832E

IC101 : NJM2284D
IC102 : BA7666FS
IC201 : BA05T
IC202 : TC74HC00AP
IC401,403 : NJM4580D-D
IC402,404 : NJM4565D-D

Q101,201 : UN4212 or DTC124ESA
Q202,203 : KTC3199(Y,GR) or 2SC2785(F,E) or 2SC1740S(Q,R)

Q204 : KTA1267(Y,GR) or 2SA1175(F,E) or 2SA933AS(Q,R)
Q301-320,403-408,411,412 : 2SC2978(B)
Q401,402,409 : DTA124ESA or UN4112

D201-206 : 1SS133 or HSS104A
D401 : MTZJ3.9(B) or RD3.9ES(B)
D402 : MTZJ5.1(B) or RD5.1ES(B)



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MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
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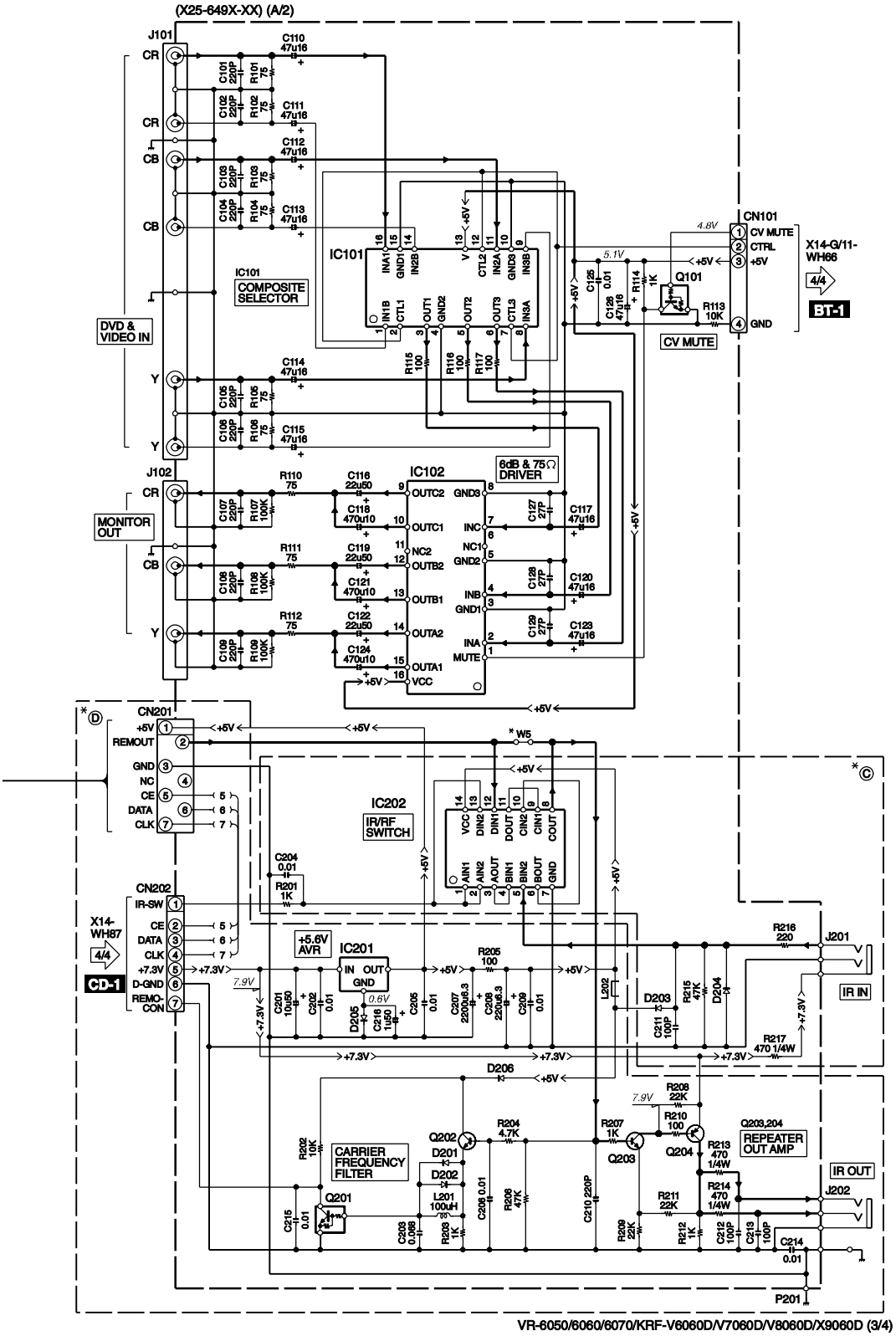
MC-Service



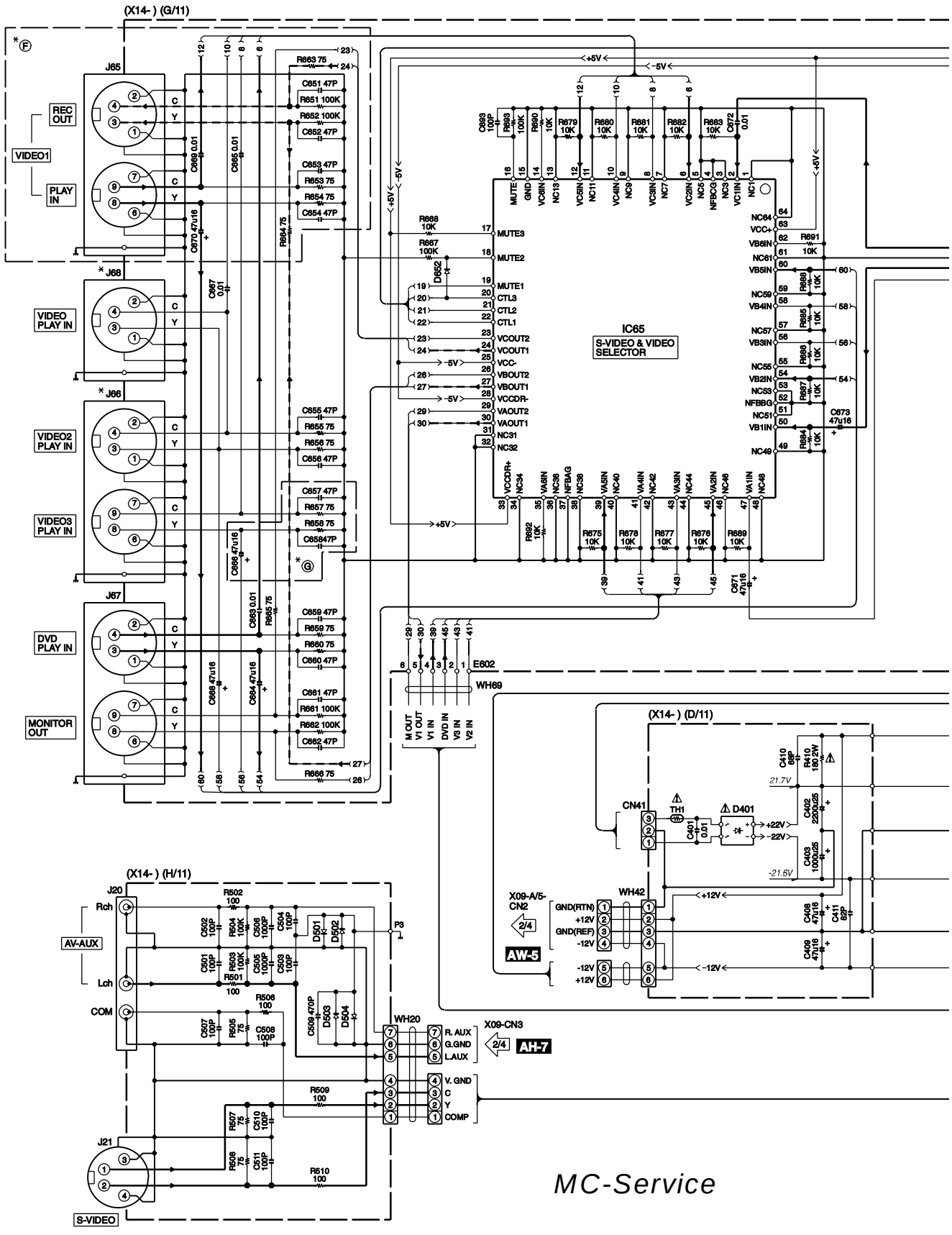
VR-6050/6060/6070/KRF-V6060D/V7060D/V8060D/X9060D (3/4)

MC-Service

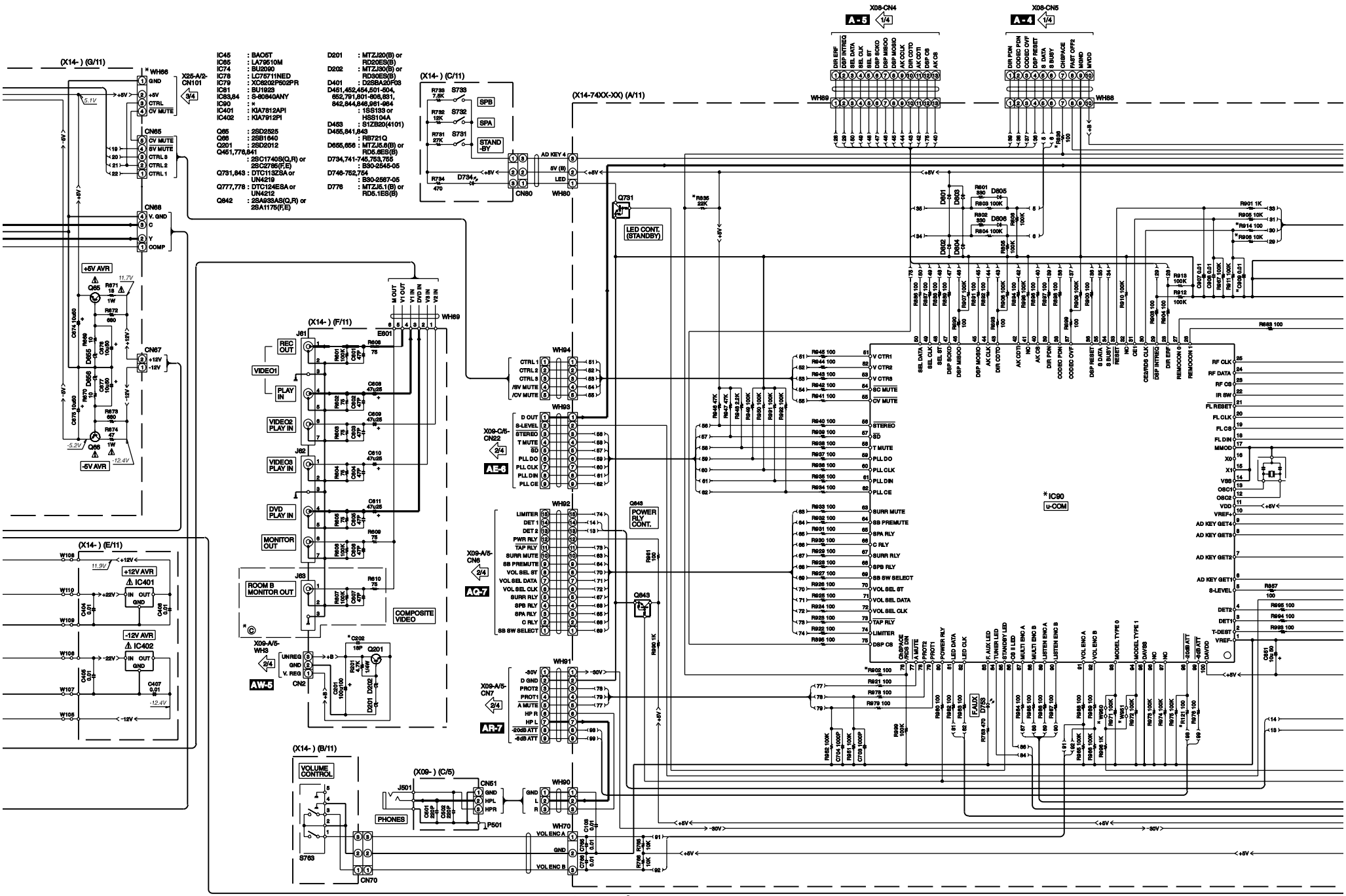
KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

Y05-4660-10

KENWOOD


(X14-) (G/11)
J65
REC OUT
VIDEO1
PLAY IN
J68
VIDEO PLAY IN
J66
VIDEO2 PLAY IN
VIDEO3 PLAY IN
J67
DVD PLAY IN
MONITOR OUT
IC65
S-VIDEO & VIDEO SELECTOR
+5V
-5V
E602
WH69
M OUT
V1 OUT
V1 IN
DVD IN
V2 IN
V2 IN
(X14-) (D/11)
CN41
TH1
D401
+22V
-22V
-21.6V
21.7V
WH42
X09-A/5-CN2
GND(RTN)
+12V
GND(REF)
-12V
AW-5
(X14-) (H/11)
J20
Rch
AV-AUX
Lch
COM
WH20
X09-CN3
R. AUX
G.GND
L.AUX
AH-7
V. GND
C
Y
COMP
J21
S-VIDEO

MC-Service


IC45 : BA05T
IC65 : LA79510M
IC74 : BU2090
IC78 : LC75711NED
IC79 : XC6202P502PR
IC81 : BU1923
IC83,84 : S-80840ANY
IC90 : *
IC401 : KIA7812API
IC402 : KIA7912PI
Q65 : 2SD2525
Q66 : 2SB1640
Q201 : 2SD2012
Q451,776,841 : 2SC1740S(Q,R) or 2SC2785(F,E)
Q731,843 : DTC113ZSA or UN4219
Q777,778 : DTC124ESA or UN4212
Q842 : 2SA933AS(Q,R) or 2SA1175(F,E)
D201 : MTZJ20(B) or RD20ES(B)
D202 : MTZJ30(B) or RD30ES(B)
D401 : D2SBA20F03
D451,452,454,501-504, 652,791,801-808,831, 842,844,846,861-864 : 1SS133 or HSS104A
D453 : S1ZB20(4101)
D455,841,843 : RB721Q
D655,656 : MTZJ5.6(B) or RD5.6ES(B)
D734,741-745,753,755 : B30-2545-05
D746-752,754 : B30-2567-05
D776 : MTZJ5.1(B) or RD5.1ES(B)
(X14-) (G/11)
(X14-) (C/11)
(X14-74XX-XX) (A/11)
(X14-) (F/11)
(X14-) (E/11)
(X14-) (B/11)
(X09-) (C/5)
X08-CN4
X08-CN5
X25-A/2-CN101
CN65
CN66
CN67
CN68
CN70
CN80
CN2
CN51
WH66
WH69
WH70
WH80
WH88
WH89
WH90
WH91
WH92
WH93
WH94
WH3
J61
J62
J63
J501
P501
E801
S731
S732
S733
S763
Q731
Q843
Q201
Q85
Q86
IC401
IC402
IC90
u-COM
LED CONT. (STANDBY)
POWER RLY CONT.
COMPOSITE VIDEO
ROOM B MONITOR OUT
MONITOR OUT
VIDEO1
VIDEO2 PLAY IN
VIDEO3 PLAY IN
DVD PLAY IN
PLAY IN
REC OUT
VOLUME CONTROL
PHONES
STAND -BY
SPB
SPA
LED
AD KEY 4
5V (B)
+5V AVR
-5V AVR
+12V AVR
-12V AVR
AE-6
AO-7
AR-7
AW-5
A-5
A-4
DIR ERF
DSP INTREQ
SEL CLK
SEL DATA
SEL ST
DSP SCKO
DSP MISO
DSP MOSI
AK CDTI
DIR CDTO
DSP CS
AK CS
DIR PDN
CODEC PDN
CODEC OVF
DSP RESET
S DATA
S BUSY
RESET
CHSPACE
FAST OFF2
MGND
MVDD
RF CLK
RF DATA
RF CS
IR SW
FL RESET
FL CLK
FL CS
FL DIN
MMOD
X0
X1
VSS
OSCI
OSCO
VDD
VREF+
AD KEY GET4
AD KEY GET3
AD KEY GET2
AD KEY GET1
S-LEVEL
DET2
DET1
T-DEST
VREF-
V CTR1
V CTR2
V CTR3
SC MUTE
CV MUTE
STEREO
SD
T MUTE
PLL DO
PLL CLK
PLL DIN
PLL CE
SURR MUTE
SB PREMUTE
SPA RLY
C RLY
SURR RLY
SPB RLY
SB SW SELECT
VOL SEL ST
VOL SEL DATA
VOL SEL CLK
TAP RLY
LIMITER
DSP CS
CHSPACE
RDS DIN
A MUTE
PROT2
PROT1
POWER RLY
LED DATA
LED CLK
F. AUX LED
TUNER LED
STANDBY LED
CD IN LED
MULTI ENC A
MULTI ENC B
LISTEN ENC A
LISTEN ENC B
VOL ENC A
VOL ENC B
MODEL TYPE 0
MODEL TYPE 1
DAVSS
NC
-30dB ATT
-6dB ATT
DAVDD
F.AUX
D785
RT86 470
-5.2V
-12.4V
11.7V
11.9V
5.1V
*Q202
*WH51
*WH52
*WH53
*WH54
*WH55
*WH56
*WH57
*WH58
*WH59
*WH60
*WH61
*WH62
*WH63
*WH64
*WH65
*WH66
*WH67
*WH68
*WH69
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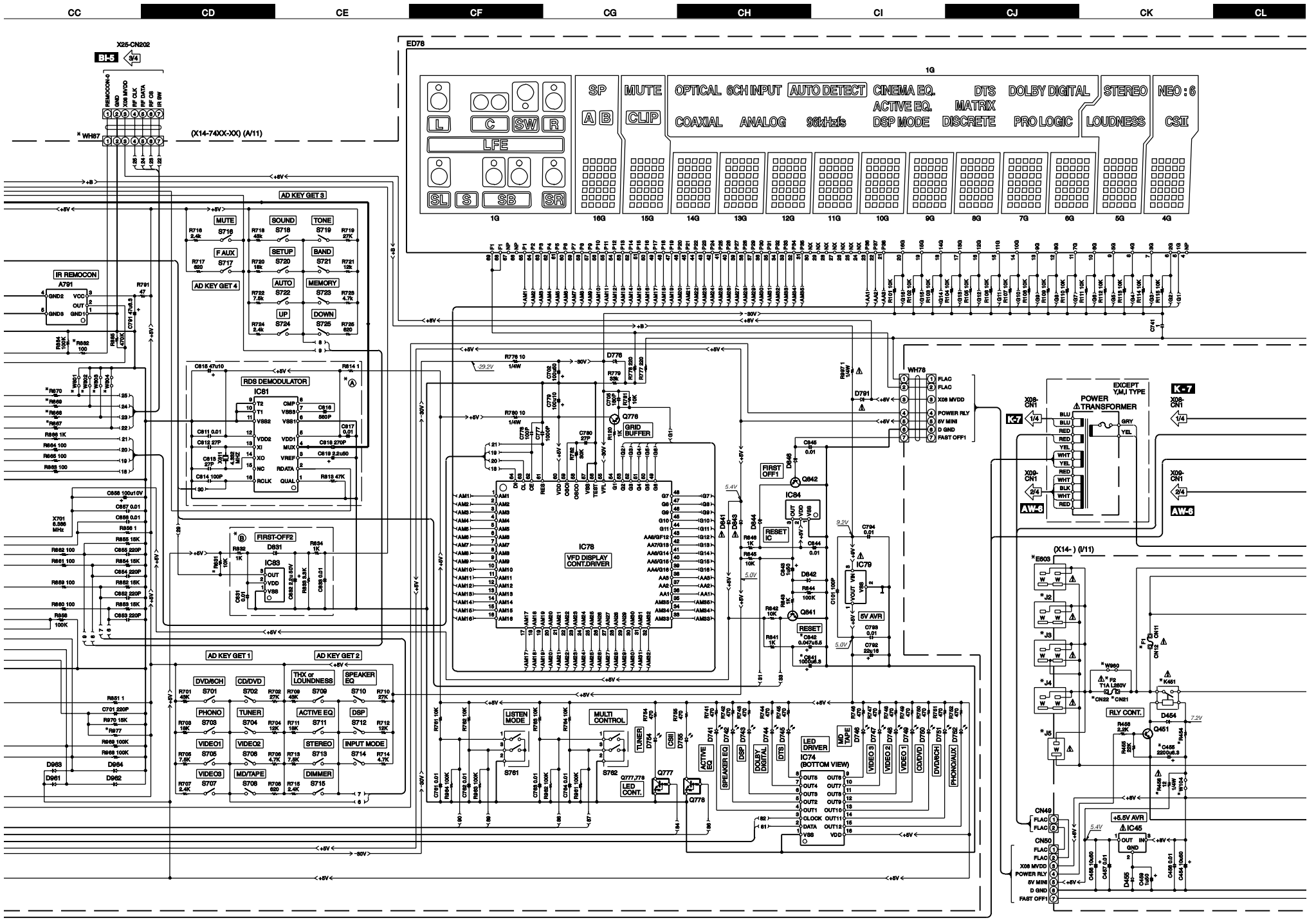
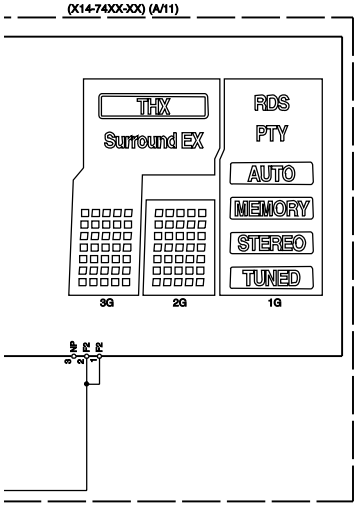
*WH71
*WH72
*WH73
*WH74
*WH75
*WH76
*WH77
*WH78
*WH79
*WH80
*WH81
*WH82
*WH83
*WH84
*WH85
*WH86
*WH87
*WH88
*WH89
*WH90
*WH91
*WH92
*WH93
*WH94


CC
CD
CE
CF
CG
CH
CI
CJ
CK
CL
X25-CN202
BI-5
3/4
REMOCON-G
GND
X08 MVDD
RF CLK
RF DATA
RF CS
IR 6W
WH87
(X14-74XX-XX) (A/11)
ED78
1G
SP
A B
MUTE
CLIP
OPTICAL
COAXIAL
6CH INPUT
ANALOG
AUTO DETECT
96kHzfs
CINEMA EQ.
ACTIVE EQ.
DSP MODE
DTS
MATRIX
DISCRETE
DOLBY DIGITAL
PRO LOGIC
STEREO
LOUDNESS
NEO : 6
CSII
L
C
SW
R
LFE
SL
S
SB
SR
AD KEY GET 3
MUTE
SOUND
TONE
F AUX
SETUP
BAND
AUTO
MEMORY
UP
DOWN
AD KEY GET 4
IR REMOCON
A791
RDS DEMODULATOR
IC81
IC78
VFD DISPLAY CONT.DRIVER
GRID BUFFER
Q776
FIRST OFF1
FIRST-OFF2
IC83
IC84
RESET IC
IC79
5V AVR
RESET
Q842
Q841
Q843
Q844
Q842
AD KEY GET 1
AD KEY GET 2
DVD/6CH
CD/DVD
THX or LOUDNESS
SPEAKER EQ
PHONO
TUNER
ACTIVE EQ
DSP
VIDEO1
VIDEO2
STEREO
INPUT MODE
VIDEO3
MD/TAPE
DIMMER
LISTEN MODE
MULTI CONTROL
S761
S762
LED DRIVER
IC74
(BOTTOM VIEW)
LED CONT.
Q777,778
Q777
Q778
WH78
FLAC
X08 MVDD
POWER RLY
5V MINI
D GND
FAST OFF1
EXCEPT Y,M,I TYPE
POWER TRANSFORMER
K-7
AW-6
X08-CN1
X09-CN1
(X14-) (I/11)
E603
J2
J3
J4
J5
W960
K451
RLY CONT.
D454
Q451
CN49
CN50
+5.5V AVR
IC45
+5V
-30V
+B



ANODE CONNECTION

	1G	2G	3G	4G	5G	6-14G	15G	16G
P1	(L)	1-1	1-1	1-1	1-1	1-1	1-1	1-1
P2	(C)	2-1	2-1	2-1	2-1	2-1	2-1	2-1
P3	(R)	3-1	3-1	3-1	3-1	3-1	3-1	3-1
P4	SR	4-1	4-1	4-1	4-1	4-1	4-1	4-1
P5	SB	5-1	5-1	5-1	5-1	5-1	5-1	5-1
P6	SL	1-2	1-2	1-2	1-2	1-2	1-2	1-2
P7	S	2-2	2-2	2-2	2-2	2-2	2-2	2-2
P8	SW	3-2	3-2	3-2	3-2	3-2	3-2	3-2
P9	LFE	4-2	4-2	4-2	4-2	4-2	4-2	4-2
P10	(L)	5-2	5-2	5-2	5-2	5-2	5-2	5-2
P11	(C)	1-3	1-3	1-3	1-3	1-3	1-3	1-3
P12	(R)	2-3	2-3	2-3	2-3	2-3	2-3	2-3
P13	(SR)	3-3	3-3	3-3	3-3	3-3	3-3	3-3
P14	(SBR)	4-3	4-3	4-3	4-3	4-3	4-3	4-3
P15	(SBL)	5-3	5-3	5-3	5-3	5-3	5-3	5-3
P16	(SL)	1-4	1-4	1-4	1-4	1-4	1-4	1-4
P17	(SW)	2-4	2-4	2-4	2-4	2-4	2-4	2-4

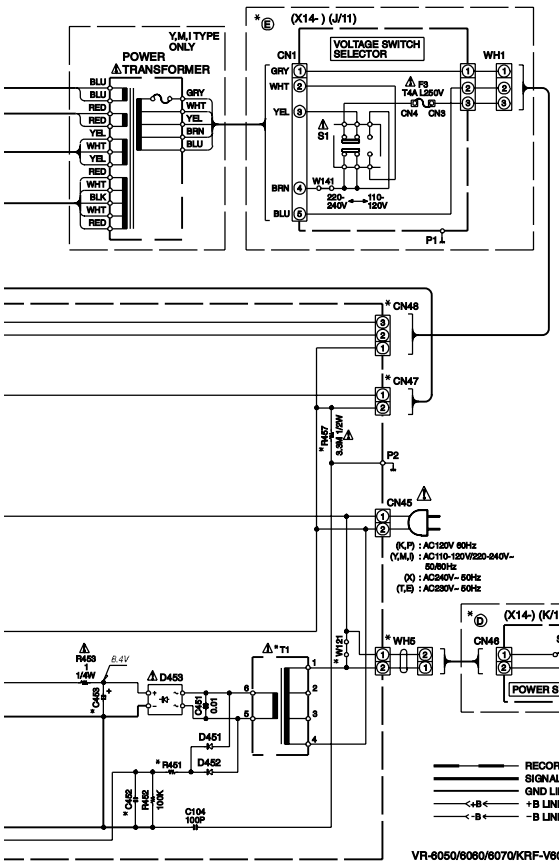
P18	OPTICAL	3-4	3-4	3-4	3-4	3-4	3-4	3-4
P19	COAXIAL	4-4	4-4	4-4	4-4	4-4	4-4	4-4
P20	6CH INPUT	5-4	5-4	5-4	5-4	5-4	5-4	5-4
P21	ANALOG	1-5	1-5	1-5	1-5	1-5	1-5	1-5
P22	AUTO DETECT	2-5	2-5	2-5	2-5	2-5	2-5	2-5
P23	Shift/dis	3-5	3-5	3-5	3-5	3-5	3-5	3-5
P24	CINEMA EQ.	4-5	4-5	4-5	4-5	4-5	4-5	4-5
P25	ACTIVE EQ.	5-5	5-5	5-5	5-5	5-5	5-5	5-5
P26	DSP MODE	1-6	1-6	1-6	1-6	1-6	1-6	1-6
P27	DTS	2-6	2-6	2-6	2-6	2-6	2-6	2-6
P28	MATRIX	3-6	3-6	3-6	3-6	3-6	3-6	3-6
P29	DISCRETE	4-6	4-6	4-6	4-6	4-6	4-6	4-6
P30	DOLBY DIGITAL	5-6	5-6	5-6	5-6	5-6	5-6	5-6
P31	PRO LOGIC	1-7	1-7	1-7	1-7	1-7	1-7	1-7
P32		2-7	2-7	2-7	2-7	2-7	2-7	2-7
P33	RDS	3-7	3-7	3-7	3-7	3-7	3-7	3-7
P34	PTY	4-7	4-7	4-7	4-7	4-7	4-7	4-7
P35	AUTO	5-7	5-7	5-7	5-7	5-7	5-7	5-7
P36	MEMORY	–	THX	NEO:6	LOUDNESS	–	MUTE	SP
P37	STEREO	–	Surround EX	CSII	STEREO	–	CLIP	A
P38	TUNED	–	–	–	–	–	–	B

1-1	2-1	3-1	4-1	5-1
1-2	2-2	3-2	4-2	5-2
1-3	2-3	3-3	4-3	5-3
1-4	2-4	3-4	4-4	5-4
1-5	2-5	3-5	4-5	5-5
1-6	2-6	3-6	4-6	5-6
1-7	2-7	3-7	4-7	5-7

(2G-16G)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



VR-6050 (X14-742X-XX)

DESTINATION	UNIT	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ	C202,455, 842,909	C452	C453	C841	CN21, 22,48	CN47	E603	F1	F2	IC90	J2, 66	J3-5, 66	K451	R121,459,831,835,839, 882,902,908,914,977	R451	R454	R457	R867 -670	T1	W121,801, -804,950,960	W901	WH5, 66,67
COUNTRY ABB.	No.																							
U.S.A. K	0-10	NO		NO	0.1	3300u 16	YES	NO	YES	NO	125V 10A	MN101C49 G3H	YES	NO	S78-0107-05	NO	39K	27 1/4W	YES	100K	L07-2808-05	YES	NO	NO
CANADA P																								

KRF-V6060D (X14-742X-XX)

DESTINATION	UNIT	Ⓐ	Ⓑ	Ⓔ	Ⓒ	Ⓕ	Ⓖ	Ⓓ	C202, 841	C452	C453	C455, 909	C842	CN21, 22	CN47	CN48	E603	F1	F2	IC90	J2	J3	J4,5 66	J66	K451	R121, 457,882	R451	R454	R455,831, 835,836,908	R867 -670	R902	R914	R977	T1	W121, 951,960	W901- 904,950	WH5	WH6, 67
COUNTRY ABB.	No.																																				
PX Y	2-91	NO	YES						0.068	3300u 25	YES	NO	YES		NO	YES			250V T4A L	YES	MN101C49 G3H	YES	NO															
EUROPE E	2-71	YES	NO		NO		YES	NO	0.039		NO	YES	YES	YES	YES	NO	NO	S78-0110-05			NO	YES	NO	YES	330K	27 1/4W	NO		100K	YES	NO	12K	L07-2805-05	NO	YES	YES	NO
																															YES	27K	L07-2761-05				

KRF-V6060D-S (X14-742X-XX)

DESTINATION	UNIT	Ⓐ	Ⓑ	Ⓔ	Ⓒ	Ⓕ	Ⓖ	Ⓓ	C202, 841	C452	C453	C455, 909	C842	CN21, 22	CN47	CN48	E603	F1	F2	IC90	J2, 66	J3	J4	J5	J66	K451	R121, 457,882	R451	R454	R455, 836	R831, 835,908	R867 -670	R902	R914	R977	T1	W121, 951,960	W901- 904,950	WH5	WH6, 67
COUNTRY ABB.	No.																																						
GENERAL MARKET M	0-21	NO	YES									YES			NO	YES	NO						YES	NO					16K	1/4W	YES								
MALAYSIA I	4-11								0.068																														
KOREA H	0-71									3300u 25		YES			NO		YES						NO	YES					150K										
AUSTRALIA X	0-51	NO			NO		YES	NO	0.047		NO		YES	YES		NO		250V T4A L	YES	MN101C49 G3H	NO	NO			S78-0110-05	NO	150K	27 1/4W	NO	YES	100K	YES	NO	12K	L07-2805-05	NO	YES	YES	NO
U.K. T	0-51	YES																					YES	NO											4.7K	L07-2761-05			
EUROPE E	2-71								0.039						YES	NO					YES	NO	NO					150K	27 1/4W		NO							

KRF-V7060D/-S (X14-7422-71)

DESTINATION	UNIT	Ⓐ	Ⓓ	Ⓑ	Ⓒ	Ⓔ	Ⓕ	Ⓖ	C202,455, 841,909	C452	C453	C842	CN21, 22,47	CN48	E603	F1	F2	IC90	J2,4,5, 66	J3, 66	K451	R121,457,458,831, 835,836,882,908	R451	R454	R867 -670	R902, 914	R977	T1	W121, 951,960	W901- 904,950	WH5	WH66, 67
COUNTRY ABB.	No.																															
EUROPE E	2-71	YES		NO		NO			0.039	3300u 25	YES	YES	NO	NO	250V T4A L	YES	MN101C49 G3H	NO	YES	S78-0110-05	NO		190K	27 1/4W	100K	YES	27K	L07-2761-05	NO	YES	YES	NO

VR-6070 (X14-7490-11)

DESTINATION	UNIT	Ⓐ	Ⓑ	Ⓓ	Ⓔ	Ⓒ	Ⓕ	Ⓖ	C202,455, 842,909	C452	C453	C841	CN21, 22,45	CN47	E603	F1	F2	IC90	J2, 66	J3-5, 66	K451	R121, 457,882	R451	R454	R458,831,835,838, 839,902,909,914,977	R867 -670	T1	W121, 960	W901-804, 950,951	WH5	WH66, 67
COUNTRY ABB.	No.																														
U.S.A. K	0-11	NO		YES		NO			NO	0.1	3300u 16	YES	NO	YES	NO	125V 10A	MN101C49 G3K	YES	NO	S78-0107-05	YES	39K	27 1/4W	NO	100	L07-2809-05	YES	NO	NO	YES
CANADA P																															

KRF-X9060D (X14-7432-XX)

DESTINATION	UNIT	Ⓐ	Ⓑ	Ⓔ	Ⓒ	Ⓓ	Ⓕ	Ⓖ	C202, 841	C452	C453	C455, 909	C842	CN21, 22	CN47	CN48	E603	F1	F2	IC90	J2	J3	J4, 5,68	J66	K451	R121, 902	R451	R454	R457, 882	R458,831, 835,836,908	R867 -670	R914	R977	T1	W121,950, 951,960	W901 -904,	WH5, 66	WH67
COUNTRY ABB.	No.																																				
PX Y	2-92	NO	YES			YES			NO	0.068	3300u 25	YES	YES	YES	NO	YES	NO	250V T4A L	YES	MN101C49 G3K	YES	NO	NO	NO	YES	S78-0110-05	YES	16K	16 1/4W	NO	YES	100K	NO	12K	L07-2805-05	NO	YES	YES	NO
EUROPE E	2-72	YES	NO						0.039		NO		YES	YES	YES	NO					NO	YES						130K	27 1/4W		NO		YES	27K	L07-2761-05			

KRF-X9060D-G (X14-740X-XX)

DESTINATION	UNIT	Ⓐ	Ⓑ	Ⓔ	Ⓒ	Ⓓ	Ⓕ	Ⓖ	C202, 841	C452	C453	C455, 909	C842	CN21, 22	CN47	CN48	E603	F1	F2	IC90	J2,4, 5,68	J3	J66	K451	R121,831, 835,902,908	R451	R454	R457, 882,914	R458, 836	R867 -670	R977	T1	W121,950, 951,960	W801 -804,	WH5, 66	WH67
COUNTRY ABB.	No.																																			
GENERAL MARKET M	30-22	NO	YES		YES			NO	0.068	3300u 25	YES	YES	YES	NO	YES	NO	250V T4A L	YES	MN101C49 G3K	NO	NO	YES	NO	S78-0110-05	YES	18K	16 1/4W	NO	YES	100K	12K	L07-2805-05	NO	YES	YES	NO
KOREA H	24-12	NO							0.047		NO		YES	YES		NO	YES		NO			NO	YES			150K	27 1/4W		NO		4.7K	L07-2759-05				

KRF-X9060D-S (X14-743X-XX)

DESTINATION	UNIT	Ⓐ	Ⓑ	Ⓔ	Ⓒ	Ⓓ	Ⓕ	Ⓖ	C202,455, 841,909	C452	C453	C842	CN21, 22,47	CN48	E603	F1	F2	IC90	J2, 66	J3	J4	J5	J66	K451	R121, 902	R451	R454	R457,458, 835,882	R831, 835,908	R867 -670	R914	R977	T1	W121,950, 951,960	W801 -804,	WH5, 66	WH67
COUNTRY ABB.	No.																																				
AUSTRALIA X	0-72	NO							0.047												NO	YES			150K						4.7K	L07-2768-05				
U.K. T	0-52	YES	NO		YES					3300u 25	YES	YES	NO	NO	250V T4A L	YES	MN101C49 G3K	NO	NO	YES	NO	YES	S78-0110-05	YES	130K	27 1/4W	NO	NO	100K	YES	27K	L07-2761-05	NO	YES	YES	NO
EUROPE E	2-72								0.039												YES	NO															

VR-6080 (X14-7430-10)

DESTINATION	UNIT	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ	C202, 841	C452	C453	C455, 842,909	CN21, 22,49	CN47	E603	F1	F2	IC90	J2, 66	J3-5, 66	K451	R121,458,831,835, 836,902,905,914,977	R451	R454	R457, 882	R867 -670	T1	W121, 951,960	W901- 904,950	WH5,	WH69 67
COUNTRY ABB.	No.																														
U.S.A. K	0-10	NO			YES	YES	0.1	3300u 16	NO	NO	YES	NO	NO	125V 10A	MN101C49 G3H	YES	NO	S78-0107-05	NO		39K	27 1/4W	YES	100	L07-2809-05	YES	NO	NO	YES
CANADA P																															

KRF-V6060D-G (X14-7430-21)

DESTINATION	UNIT	Ⓐ	Ⓒ	Ⓑ	Ⓓ	Ⓔ	Ⓕ	Ⓖ	C202,455, 842,909	C452	C453	C841	CN21, 22,48	CN47	E603	F1	F2	IC90	J2,4, 5,68	J3, 66	K451	R121,457, 882,914,	R451	R454	R456,831,835, 836,902,908	R867 -670	R977	T1	W121,950, 960	W801-804, 951,	WH5, 66	WH67
COUNTRY ABB.	No.																															
GENERAL MARKET M	0-21	NO		YES		YES			YES	0.068	3300u 25	NO	YES	NO	NO	250V T4A L	YES	MN101C49 G3H	NO	YES	S78-0110-05	NO	16K	1/4W	YES	100K	12K	L07-2805-05	NO	YES	YES	NO

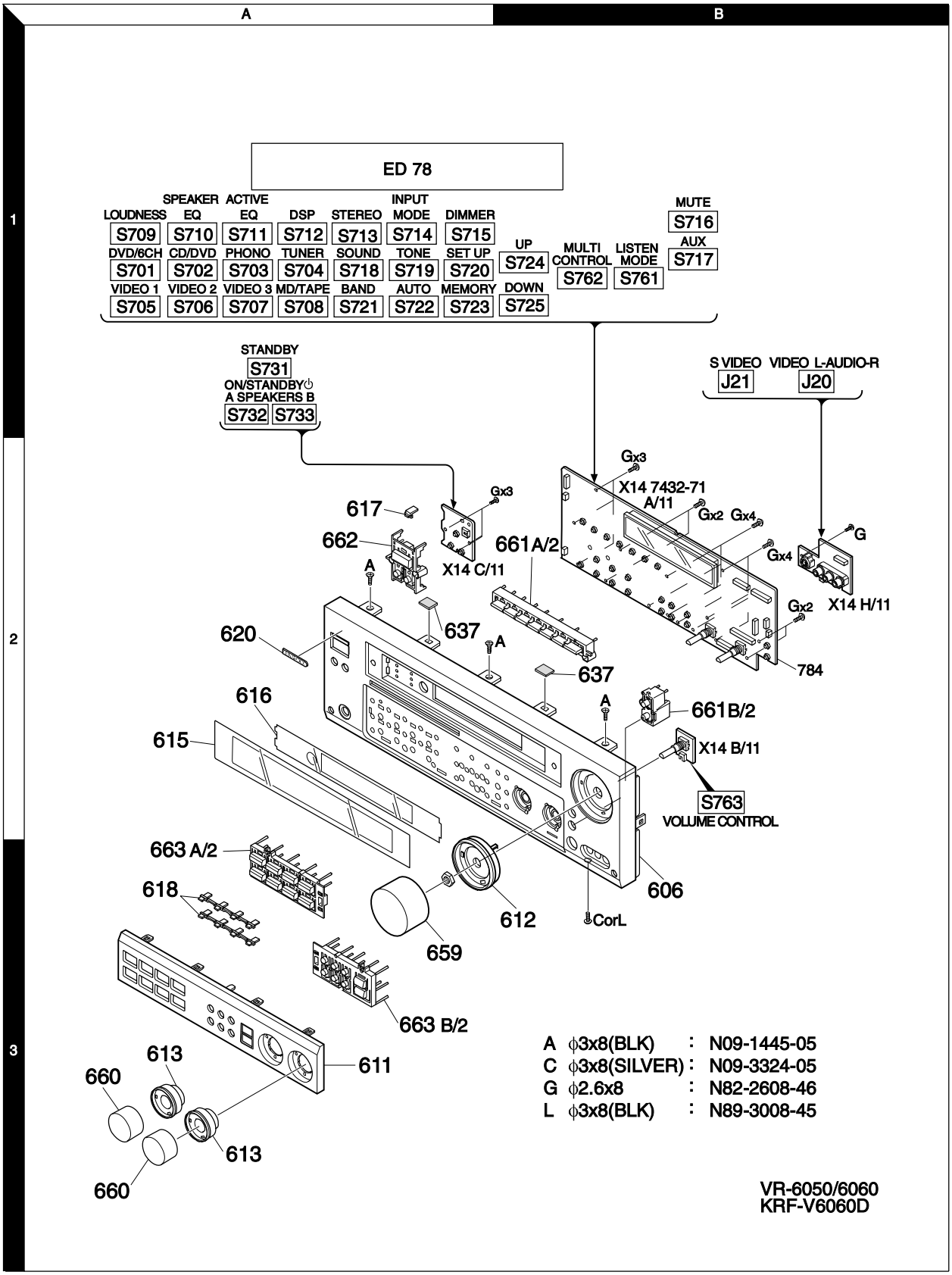
VR-6060D-S (X14-743X-XX)

DESTINATION	UNIT	Ⓐ	Ⓒ	Ⓔ	Ⓑ	Ⓓ	Ⓕ	Ⓖ	C202, 842	C452	C453	C455, 841,909	CN21, 22,47	CN48	E603	F1	F2	IC90	J2,4, 66	J3	J5	J66	K451	R121,457, 458,836,882	R451	R454	R831, 835,908	R867 -670	R902	R914	R977	T1	W121,950, 960	W801-804, 951,	WH5, 66	WH67
COUNTRY ABB.	No.																																			
AUSTRALIA X	0-71	NO		NO		YES		YES	0.047	3300u 25	NO	YES	NO	NO	250V T4A L	YES	MN101C49 G3H	NO	NO	YES	NO	S78-0110-05	NO	150K	27 1/4W	YES	100K	YES	NO	4.7K	L07-2768-05	NO	YES	YES	NO
EUROPE E	2-71	YES							0.039											YES	NO			180K		NO			YES	27K	L07-2761-05				

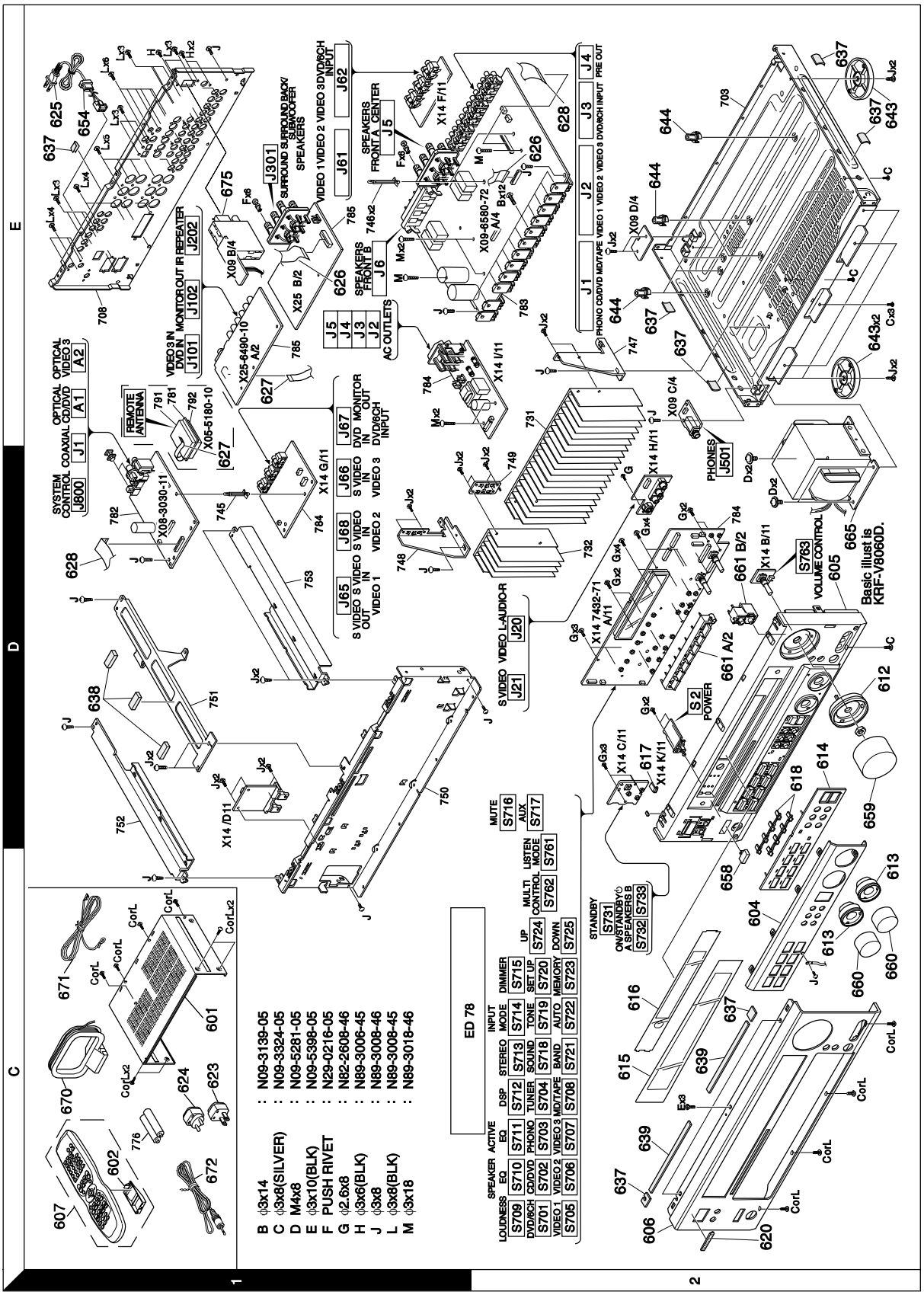
KRF-V8060D (X14-7432-71)

DESTINATION	UNIT	Ⓐ	Ⓓ	Ⓕ	Ⓖ	Ⓑ	Ⓒ	Ⓔ	C202, 842	C452	C453	C455, 841,909	CN21, 22,47	CN48	E603	F1	F2	IC90	J2,4, 5,68	J3, 66	K451	R121,457,458,831, 835,836,882,908	R451	R454	R867 -670	R902, 914	R977	T1	W121,950, 960	W801-804, 951,	WH5, 66	WH67
COUNTRY ABB.	No.																															
EUROPE E	2-71	YES		NO		YES		NO	0.039	3300u 25	NO	YES	NO	NO	250V T4A L	YES	MN101C49 G3H	NO	YES	S78-0110-05	NO		190K	27 1/4W	100K	YES	27K	L07-2761-05	NO	YES	YES	NO

EXPLODED VIEW



EXPLODED VIEW



Parts with exploded numbers larger than 700 are not supplied.

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
VR-6050, KRF-V6060D/KRF-V6060D-S						
601	1C	✻	A01-3840-01	METALLIC CABINET	KPYE	
601	1C	✻	A01-3841-01	METALLIC CABINET	MIH	
601	1C	✻	A01-3841-01	METALLIC CABINET	XTES	
602	1C		A09-1258-08	BATTERY COVER		
606	3B	✻	A60-2169-01	PANEL	KP	
606	3B	✻	A60-2170-01	PANEL	YE	
606	3B	✻	A60-2171-01	PANEL	MIH	
606	3B	✻	A60-2171-01	PANEL	XTES	
607	1C	✻	A70-1554-05	REMOTE CONTROLLER ASSY	TEES	
607	1C	✻	A70-1555-05	REMOTE CONTROLLER ASSY	KPY	
607	1C	✻	A70-1555-05	REMOTE CONTROLLER ASSY	MIHX	
611	3A	✻	B07-2596-12	ESCUTCHEON	E	
611	3A	✻	B07-2597-12	ESCUTCHEON	TES	
611	3A	✻	B07-2598-12	ESCUTCHEON	KPY	
611	3A	✻	B07-2599-12	ESCUTCHEON	MIHX	
612	3B		B07-2606-03	ESCUTCHEON	KPYE	
612	3B		B07-2607-03	ESCUTCHEON	MIH	
612	3B		B07-2607-03	ESCUTCHEON	XTES	
613	3A		B07-2608-03	ESCUTCHEON	KPYE	
613	3A	✻	B07-2609-03	ESCUTCHEON	MIH	
613	3A	✻	B07-2609-03	ESCUTCHEON	XTES	
615	2A	✻	B10-3792-02	FRONT GLASS	KP	
615	2A	✻	B10-3793-02	FRONT GLASS	YMIHX	
615	2A	✻	B10-3794-02	FRONT GLASS	TEES	
616	2A	✻	B11-1544-03	COLOR FILTER		
617	2A	✻	B12-0441-04	INDICATOR		
618	3A	✻	B12-0442-04	INDICATOR		
620	2A		B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	TEES	
-			B46-0328-03	WARRANTY CARD	Y	
-			B46-0330-03	WARRANTY CARD	K	
-			B46-0347-03	WARRANTY CARD	P	
-		✻	B46-0365-04	QUESTIONAIRE CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0945-03	CAUTION CARD	T	
-			B58-0964-13	CAUTION CARD (UL)	KY	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	XT	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	ES	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	MIE	
-			B58-0967-03	CAUTION CARD (PtypePL)	P	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		✻	B60-5192-10	INST MANUAL (EN)	KPYMIX	
-		✻	B60-5192-10	INST MANUAL (EN)	T	
-		✻	B60-5193-00	INST MANUAL (FR)	P	
-		✻	B60-5194-00	INST MANUAL (ES/FR/GE/NE/IT)	EES	
-		✻	B60-5195-00	INST MANUAL (ES/TC)	MI	
⚠ 623	1C		E03-0382-05	AC PLUG ADAPTER(WA-6)	M	
⚠ 624	1C		E03-0383-05	AC PLUG ADAPTER(WA-9C)	M	
⚠ 625	1E		E30-2605-05	AC POWER CORD	Y	
⚠ 625	1E		E30-2717-05	AC POWER CORD	X	
⚠ 625	1E		E30-2721-05	AC POWER CORD	MIT	

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico **C :** China **I :** Malaysia
Y : PX(Far East,Hawaii) **T :** England **E :** Europe **G :** Germany **V :** China(Shanghai) **ES :** KRF-V6060D-S(Etype)
Y : AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components .

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❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
⚠ 625	1E		E30-2941-05	AC POWER CORD	KP	
⚠ 625	1E		E30-2942-05	AC POWER CORD	EES	
⚠ 625	1E		E30-2950-05	AC POWER CORD	H	
628	1D,2E	✻	E35-3216-05	FLAT CABLE		
637	2C,2E	✻	G11-2885-04	CUSHION		
638	1D	✻	G11-2886-04	CUSHION		
-		✻	H10-7800-02	POLYSTYRENE FOAMED FIXTURE R		
-		✻	H10-7801-02	POLYSTYRENE FOAMED FIXTURE L		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		✻	H50-4369-04	ITEM CARTON CASE	KP	
-		✻	H50-4370-04	ITEM CARTON CASE	Y	
-		✻	H50-4371-04	ITEM CARTON CASE	MIH	
-		✻	H50-4372-04	ITEM CARTON CASE	X	
-		✻	H50-4373-04	ITEM CARTON CASE	T	
-		✻	H50-4374-04	ITEM CARTON CASE	E	
-		✻	H50-4375-04	ITEM CARTON CASE	ES	
643	2E	✻	J02-1532-03	FOOT		
644	2E		J19-3751-04	UNIT HOLDER		
⚠ 654	1E		J42-0349-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
658	2C		K27-2384-04	KNOB (BUTTON) POWER	YE	
658	2C		K27-2481-04	KNOB (BUTTON) POWER	MIH	
658	2C		K27-2481-04	KNOB (BUTTON) POWER	XTES	
659	3A		K29-8103-04	KNOB VOLUME	KPYE	
659	3A		K29-8104-04	KNOB VOLUME	MIH	
659	3A		K29-8104-04	KNOB VOLUME	XTES	
660	3A		K29-8105-04	KNOB MULTI/LISTEN	KPYE	
660	3A		K29-8106-04	KNOB MULTI/LISTEN	MIH	
660	3A		K29-8106-04	KNOB MULTI/LISTEN	XTES	
661	2B	✻	K29-8136-03	KNOB ASSY	KPYE	
661	2B	✻	K29-8137-03	KNOB ASSY	MIH	
661	2B	✻	K29-8137-03	KNOB ASSY	XTES	
662	2A	✻	K29-8107-02	KNOB ON/STANDBY	KPYE	
662	2A	✻	K29-8108-02	KNOB ON/STANDBY	MIH	
662	2A	✻	K29-8108-02	KNOB ON/STANDBY	XTES	
663	3A	✻	K29-8111-02	KNOB VIDEO1-SETUP-2	KPYE	
663	3A	✻	K29-8112-02	KNOB VIDEO1-SETUP-2	MIH	
663	3A	✻	K29-8112-02	KNOB VIDEO1-SETUP-2	XTES	
⚠ 665	2D	✻	L07-3138-05	POWER TRANSFORMER	KP	
⚠ 665	2D	✻	L07-3139-05	POWER TRANSFORMER	YMI	
⚠ 665	2D	✻	L07-3140-05	POWER TRANSFORMER	HX	
⚠ 665	2D	✻	L07-3141-05	POWER TRANSFORMER	TEES	
670	1C		T90-0852-05	LOOP ANTENNA		
671	1C		T90-0877-05	LEAD WIRE ANTENNA		
675	1E	✻	W02-2893-05	TUNER ASSY	KP	
675	1E	✻	W02-2894-05	TUNER ASSY	KP	
675	1E	✻	W02-2895-05	TUNER ASSY	YMIHX	
675	1E	✻	W02-2896-05	TUNER ASSY	TEES	
675	1E	✻	W02-2897-05	TUNER ASSY	TEES	
675	1E	✻	W02-2906-05	TUNER ASSY	KP	

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico **C :** China **I :** Malaysia
Y : PX(Far East,Hawaii) **T :** England **E :** Europe **G :** Germany **V :** China(Shanghai) **ES :** KRF-V6060D-S(Etype)
Y : AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components .

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❸

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
KRF-V7060D/V7060D-S						
601	1C	✻	A01-3842-01	METALLIC CABINET	E	
601	1C	✻	A01-3843-01	METALLIC CABINET	ES	
602	1C		A09-1258-08	BATTERY COVER		
604	2C	✻	A21-3982-12	DRESSING PANEL	E	
604	2C	✻	A21-3983-12	DRESSING PANEL	ES	
605	2D	✻	A22-1873-01	SUB PANEL ASSY	E	
605	2D	✻	A22-1874-01	SUB PANEL ASSY	ES	
606	2C	✻	A60-2181-02	PANEL	E	
606	2C	✻	A60-2182-12	PANEL	ES	
607	1C	✻	A70-1554-05	REMOTE CONTROLLER ASSY		
612	2D		B07-2606-03	ESCUTCHEON	E	
612	2D		B07-2607-03	ESCUTCHEON	ES	
613	2C	✻	B07-2608-03	ESCUTCHEON	E	
613	2C	✻	B07-2609-03	ESCUTCHEON	ES	
614	2D	✻	B07-2619-13	ESCUTCHEON	E	
614	2D	✻	B07-2620-13	ESCUTCHEON	ES	
615	2C		B10-3791-02	FRONT GLASS		
616	2C	✻	B11-1544-03	COLOR FILTER		
617	2D	✻	B12-0440-04	INDICATOR		
618	2D	✻	B12-0442-04	INDICATOR		
620	2C		B43-0314-04	KENWOOD BADGE		
-			B46-0310-03	WARRANTY CARD		
-			B58-0966-13	CAUTION CARD (ELMtypePL)		
-		✻	B60-5194-00	INST MANUAL (ES/FR/GE/NE/IT)		
⚠ 625	1E		E30-2942-05	AC POWER CORD		
628	1D,1E	✻	E35-3216-05	FLAT CABLE		
637	2C,2E	✻	G11-2885-04	CUSHION		
638	1D	✻	G11-2886-04	CUSHION		
639	2C	✻	G11-2887-04	CUSHION		
-		✻	H10-7800-02	POLYSTYRENE FOAMED FIXTURE R		
-		✻	H10-7801-02	POLYSTYRENE FOAMED FIXTURE L		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		✻	H50-4367-04	ITEM CARTON CASE	E	
-		✻	H50-4368-04	ITEM CARTON CASE	ES	
643	2E	✻	J02-1532-03	FOOT		
644	2E		J19-3751-04	UNIT HOLDER		
⚠ 654	1E		J42-0349-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
658	2C		K27-2384-04	KNOB (BUTTON) POWER	E	
658	2C		K27-2481-04	KNOB (BUTTON) POWER	ES	
659	2D	✻	K29-8099-04	KNOB VOLUME	E	
659	2D	✻	K29-8100-04	KNOB VOLUME	ES	
660	2C	✻	K29-8101-04	KNOB MULTI/LISTEN	E	
660	2C	✻	K29-8102-04	KNOB MULTI/LISTEN	ES	
661	2D	✻	K29-8136-03	KNOB ASSY	E	
661	2D	✻	K29-8137-03	KNOB ASSY	ES	
⚠ 665	2D	✻	L07-3141-05	POWER TRANSFORMER		
670	1C		T90-0852-05	LOOP ANTENNA		
671	1C		T90-0877-05	LEAD WIRE ANTENNA		

L: Scandinavia **K:** USA **P:** Canada **R:** Mexico **C:** China **I:** Malaysia
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Y: AAFES(Europe) **X:** Australia **Q:** Russia **H:** Korea **M:** Other Areas ⚠ indicates safety critical components.

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❹

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
675	1E	✻	W02-2896-05	TUNER ASSY		
675	1E	✻	W02-2897-05	TUNER ASSY		
VR-6060, KRF-V8060D/V8060D-S/V8060D-G						
601	1C	✻	A01-3840-01	METALLIC CABINET	KP	
601	1C	✻	A01-3842-01	METALLIC CABINET	E	
601	1C	✻	A01-3843-01	METALLIC CABINET	XES	
601	1C	✻	A01-3851-01	METALLIC CABINET	M	
602	1C		A09-1258-08	BATTERY COVER		
604	2C	✻	A21-3982-12	DRESSING PANEL	E	
604	2C	✻	A21-3983-12	DRESSING PANEL	XES	
604	2C	✻	A21-3984-12	DRESSING PANEL	M	
605	2D	✻	A22-1873-01	SUB PANEL ASSY	E	
605	2D	✻	A22-1874-01	SUB PANEL ASSY	XES	
605	2D	✻	A22-1875-01	SUB PANEL ASSY	M	
606	3B	✻	A60-2168-01	PANEL	KP	
606	2C	✻	A60-2181-02	PANEL	E	
606	2C	✻	A60-2182-12	PANEL	XES	
606	2C	✻	A60-2196-12	PANEL	M	
607	1C	✻	A70-1552-05	REMOTE CONTROLLER ASSY	KP	
607	1C	✻	A70-1553-05	REMOTE CONTROLLER ASSY	MX	
607	1C	✻	A70-1554-05	REMOTE CONTROLLER ASSY	EES	
611	3A	✻	B07-2596-12	ESCUTCHEON	KP	
612	3B,2D		B07-2606-03	ESCUTCHEON	KPE	
612	2D		B07-2607-03	ESCUTCHEON	XES	
612	2D	✻	B07-2614-03	ESCUTCHEON	M	
613	3A,2C	✻	B07-2608-03	ESCUTCHEON	KPE	
613	2C	✻	B07-2609-03	ESCUTCHEON	XES	
613	2C	✻	B07-2615-03	ESCUTCHEON	M	
614	2D	✻	B07-2619-13	ESCUTCHEON	E	
614	2D	✻	B07-2620-13	ESCUTCHEON	XES	
614	2D	✻	B07-2621-13	ESCUTCHEON	M	
615	2A	✻	B10-3786-02	FRONT GLASS	KP	
615	2C	✻	B10-3787-02	FRONT GLASS	MX	
615	2C	✻	B10-3788-02	FRONT GLASS	EES	
616	2A,2C	✻	B11-1544-03	COLOR FILTER		
617	2D	✻	B12-0440-04	INDICATOR	ES	
617	2D	✻	B12-0440-04	INDICATOR	MXE	
617	2A	✻	B12-0441-04	INDICATOR	KP	
618	3A,2D	✻	B12-0442-04	INDICATOR		
620	2A,2C		B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	EES	
-			B46-0330-03	WARRANTY CARD	K	
-			B46-0347-03	WARRANTY CARD	P	
-		✻	B46-0365-04	QUESTIONAIRE CARD	K	
-			B58-0964-13	CAUTION CARD (UL)	K	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	X	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	MEES	
-			B58-0967-03	CAUTION CARD (PtypePL)	P	
-		✻	B60-5188-20	INST MANUAL (EN)	KPMX	
-		✻	B60-5189-10	INST MANUAL (FR)	P	
-		✻	B60-5190-00	INST MANUAL (ES/FR/GE/NE/IT)	EES	
-		✻	B60-5191-00	INST MANUAL (ES/TC)	M	

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	Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
⚠	623	1C		E03-0382-05	AC PLUG ADAPTER(WA-6)	M	
⚠	624	1C		E03-0383-05	AC PLUG ADAPTER(WA-9C)	M	
⚠	625	1E		E30-2717-05	AC POWER CORD	X	
⚠	625	1E		E30-2721-05	AC POWER CORD	M	
⚠	625	1E		E30-2941-05	AC POWER CORD	KP	
⚠	625	1E		E30-2942-05	AC POWER CORD	EES	
	627	1D,1E		E35-2873-15	FLAT CABLE	KP	
	628	1D,2E	✻	E35-3216-05	FLAT CABLE		
	637	2B,2C	✻	G11-2885-04	CUSHION		
	638	1D	✻	G11-2886-04	CUSHION		
	639	2C	✻	G11-2887-04	CUSHION	ES	
	639	2C	✻	G11-2887-04	CUSHION	MXE	
	-		✻	H10-7800-02	POLYSTYRENE FOAMED FIXTURE R		
	-		✻	H10-7801-02	POLYSTYRENE FOAMED FIXTURE L		
	-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
	-			H25-0391-04	PROTECTION BAG		
	-		✻	H50-4360-04	ITEM CARTON CASE	KP	
	-		✻	H50-4361-04	ITEM CARTON CASE	M	
	-		✻	H50-4362-04	ITEM CARTON CASE	X	
	-		✻	H50-4363-04	ITEM CARTON CASE	E	
	-		✻	H50-4364-04	ITEM CARTON CASE	ES	
	643	2E	✻	J02-1532-03	FOOT		
	644	2E		J19-3751-04	UNIT HOLDER		
⚠	654	1E		J42-0349-05	POWER CORD BUSHING		
	-			J61-0307-05	WIRE BAND		
	658	2C		K27-2384-04	KNOB (BUTTON) POWER	E	
	658	2C		K27-2481-04	KNOB (BUTTON) POWER	XES	
	658	2C	✻	K27-2482-04	KNOB (BUTTON) POWER	M	
	659	3A,2D	✻	K29-8099-04	KNOB VOLUME	E	
	659	3A,2D	✻	K29-8100-04	KNOB VOLUME	XES	
	659	3A,2D		K29-8103-04	KNOB VOLUME	KP	
	659	3A,2D	✻	K29-8127-04	KNOB VOLUME	M	
	660	3A,2C	✻	K29-8101-04	KNOB MULTI/LISTEN	E	
	660	3A,2C	✻	K29-8102-04	KNOB MULTI/LISTEN	XES	
	660	3A,2C		K29-8105-04	KNOB MULTI/LISTEN	KP	
	660	3A,2C	✻	K29-8128-04	KNOB MULTI/LISTEN	M	
	661	2B,2D	✻	K29-8136-03	KNOB ASSY	KPE	
	661	2B,2D	✻	K29-8137-03	KNOB ASSY	XES	
	661	2B,2D	✻	K29-8138-03	KNOB ASSY	M	
	662	2A	✻	K29-8107-02	KNOB ON/STANDBY	KP	
	663	3A	✻	K29-8111-02	KNOB VIDEO1-SETUP-2	KP	
⚠	665	2D	✻	L07-3138-05	POWER TRANSFORMER	KP	
⚠	665	2D	✻	L07-3139-05	POWER TRANSFORMER	M	
⚠	665	2D	✻	L07-3140-05	POWER TRANSFORMER	X	
⚠	665	2D	✻	L07-3141-05	POWER TRANSFORMER	EES	
	670	1C		T90-0852-05	LOOP ANTENNA		
	671	1C		T90-0877-05	LEAD WIRE ANTENNA		
	672	1C	✻	T90-0899-05	ANTENNA ASSY	KP	
	675	1E	✻	W02-2893-05	TUNER ASSY	KP	
	675	1E	✻	W02-2894-05	TUNER ASSY	KP	
	675	1E	✻	W02-2895-05	TUNER ASSY	MX	
	675	1E	✻	W02-2896-05	TUNER ASSY	EES	
	675	1E	✻	W02-2897-05	TUNER ASSY	EES	

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	Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
	675	1E	✻	W02-2906-05	TUNER ASSY	KP	
				VR-6070, KRF-X9060D/X9060D-S/X9060D-G			
	601	1C	✻	A01-3842-01	METALLIC CABINET	KPYE	
	601	1C	✻	A01-3843-01	METALLIC CABINET	XTES	
	601	1C	✻	A01-3851-01	METALLIC CABINET	MH	
	602	1C		A09-1258-08	BATTERY COVER		
	604	2C	✻	A21-3982-12	DRESSING PANEL	KPYE	
	604	2C	✻	A21-3983-12	DRESSING PANEL	XTES	
	604	2C	✻	A21-3984-12	DRESSING PANEL	MH	
	605	2D	✻	A22-1873-01	SUB PANEL ASSY	KPYE	
	605	2D	✻	A22-1874-01	SUB PANEL ASSY	XTES	
	605	2D	✻	A22-1875-01	SUB PANEL ASSY	MH	
	606	2C	✻	A60-2178-12	PANEL	KP	
	606	2C	✻	A60-2179-02	PANEL	YE	
	606	2C	✻	A60-2180-12	PANEL	XTES	
	606	2C	✻	A60-2195-12	PANEL	MH	
	607	1C	✻	A70-1549-05	REMOTE CONTROLLER ASSY	KP	
	607	1C	✻	A70-1550-05	REMOTE CONTROLLER ASSY	YMHX	
	607	1C	✻	A70-1551-05	REMOTE CONTROLLER ASSY	TEES	
	612	2D		B07-2606-03	ESCUTCHEON	KPYE	
	612	2D		B07-2607-03	ESCUTCHEON	XTES	
	612	2D	✻	B07-2614-03	ESCUTCHEON	MH	
	613	2C	✻	B07-2608-03	ESCUTCHEON	KPYE	
	613	2C	✻	B07-2609-03	ESCUTCHEON	XTES	
	613	2C	✻	B07-2615-03	ESCUTCHEON	MH	
	614	2D	✻	B07-2619-13	ESCUTCHEON	KPYE	
	614	2D	✻	B07-2620-13	ESCUTCHEON	XTES	
	614	2D	✻	B07-2621-13	ESCUTCHEON	MH	
	615	2C	✻	B10-3783-02	FRONT GLASS	KP	
	615	2C	✻	B10-3784-02	FRONT GLASS	YMHX	
	615	2C	✻	B10-3785-02	FRONT GLASS	TEES	
	616	2C	✻	B11-1543-03	COLOR FILTER		
	617	2D	✻	B12-0440-04	INDICATOR		
	618	2D	✻	B12-0442-04	INDICATOR		
	620	2C		B43-0314-04	KENWOOD BADGE		
	-			B46-0096-53	WARRANTY CARD	X	
	-			B46-0310-03	WARRANTY CARD	TEES	
	-			B46-0328-03	WARRANTY CARD	Y	
	-			B46-0330-03	WARRANTY CARD	K	
	-			B46-0347-03	WARRANTY CARD	P	
	-		✻	B46-0365-04	QUESTIONAIRE CARD	K	
	-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
	-			B58-0945-03	CAUTION CARD	T	
	-			B58-0964-13	CAUTION CARD (UL)	KY	
	-			B58-0965-13	CAUTION CARD (T,XtypePL)	XT	
	-			B58-0966-13	CAUTION CARD (ELMtypePL)	MEES	
	-			B58-0967-03	CAUTION CARD (PtypePL)	P	
	-			B59-1104-00	SERVICE DIRECTORY	Y	
	-		✻	B60-5183-00	INST MANUAL (EN)	KPYMXT	
	-		✻	B60-5184-00	INST MANUAL (FR)	P	
	-		✻	B60-5185-00	INST MANUAL (ES/FR/GE/NE/IT)	EES	
	-		✻	B60-5186-00	INST MANUAL (ES/TC)	M	
⚠	623	1C		E03-0382-05	AC PLUG ADAPTER(WA-6)	M	

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❼

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⚠ 624	1C		E03-0383-05	AC PLUG ADAPTER(WA-9C)	M	
⚠ 625	1E		E30-2605-05	AC POWER CORD	Y	
⚠ 625	1E		E30-2717-05	AC POWER CORD	X	
⚠ 625	1E		E30-2721-05	AC POWER CORD	MT	
⚠ 625	1E		E30-2941-05	AC POWER CORD	KP	
⚠ 625	1E		E30-2942-05	AC POWER CORD	EES	
⚠ 625	1E		E30-2950-05	AC POWER CORD	H	
626	1E,2E		E35-2841-05	FLAT CABLE		
627	1D,1E		E35-2873-15	FLAT CABLE	KP	
628	1D,2E	✻	E35-3216-05	FLAT CABLE		
637	2C,2E	✻	G11-2885-04	CUSHION		
638	1D	✻	G11-2886-04	CUSHION		
639	2C	✻	G11-2887-04	CUSHION		
-		✻	H10-7800-02	POLYSTYRENE FOAMED FIXTURE R		
-		✻	H10-7801-02	POLYSTYRENE FOAMED FIXTURE L		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		✻	H50-4353-04	ITEM CARTON CASE	KP	
-		✻	H50-4354-04	ITEM CARTON CASE	Y	
-		✻	H50-4355-04	ITEM CARTON CASE	MH	
-		✻	H50-4356-04	ITEM CARTON CASE	X	
-		✻	H50-4357-04	ITEM CARTON CASE	T	
-		✻	H50-4358-04	ITEM CARTON CASE	E	
-		✻	H50-4359-04	ITEM CARTON CASE	ES	
643	2E	✻	J02-1532-03	FOOT		
644	2E		J19-3751-04	UNIT HOLDER		
⚠ 654	1E		J42-0349-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
658	2C		K27-2384-04	KNOB (BUTTON) POWER	YE	
658	2C		K27-2481-04	KNOB (BUTTON) POWER	XTES	
658	2C	✻	K27-2482-04	KNOB (BUTTON) POWER	MH	
659	2D	✻	K29-8099-04	KNOB VOLUME	KPYE	
659	2D	✻	K29-8100-04	KNOB VOLUME	XTES	
659	2D	✻	K29-8127-04	KNOB VOLUME	MH	
660	2C	✻	K29-8101-04	KNOB MULTI/LISTEN	KPYE	
660	2C	✻	K29-8102-04	KNOB VOLUME	XTES	
660	2C	✻	K29-8128-04	KNOB VOLUME	MH	
661	2D	✻	K29-8136-03	KNOB ASSY	KPYE	
661	2D	✻	K29-8137-03	KNOB ASSY	XTES	
661	2D	✻	K29-8138-03	KNOB ASSY	MH	
⚠ 665	2D	✻	L07-3138-05	POWER TRANSFORMER	KP	
⚠ 665	2D	✻	L07-3139-05	POWER TRANSFORMER	YM	
⚠ 665	2D	✻	L07-3140-05	POWER TRANSFORMER	HX	
⚠ 665	2D	✻	L07-3141-05	POWER TRANSFORMER	TEES	
670	1C		T90-0852-05	LOOP ANTENNA		
671	1C		T90-0877-05	LEAD WIRE ANTENNA		
672	1C	✻	T90-0899-05	ANTENNA ASSY	KP	
675	1E	✻	W02-2893-05	TUNER ASSY	KP	
675	1E	✻	W02-2894-05	TUNER ASSY	KP	
675	1E	✻	W02-2895-05	TUNER ASSY	YMHX	
675	1E	✻	W02-2896-05	TUNER ASSY	TEES	
675	1E	✻	W02-2897-05	TUNER ASSY	TEES	

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675	1E	✻	W02-2906-05	TUNER ASSY	KP	

RF-RC DEMODULATOR UNIT (X05-5180-10) VR-6060/6070 only

C1			CC73GCH1H220J	CHIP C	22PF	J		
C2 -4			CC73GCH1H221J	CHIP C	220PF	J		
C5			CK73GB1E223K	CHIP C	0.022UF	K		
C6			CC73GCH1H221J	CHIP C	220PF	J		
C12			CC73GCH1H221J	CHIP C	220PF	J		
C13			CC73GCH1H050C	CHIP C	5.0PF	C		
C14			CC73GCH1H100D	CHIP C	10PF	D		
C16			CK73GB1E223K	CHIP C	0.022UF	K		
C17			CC73GCH1H100D	CHIP C	10PF	D		
C18			CC73GCH1H050C	CHIP C	5.0PF	C		
C19			CK73EB0J106K	CHIP C	10UF	K		
C20			CC73GCH1H0R5C	CHIP C	0.5PF	C		
C21			CK73GB1H103K	CHIP C	0.010UF	K		
C22			CK73FB0J475K	CHIP C	4.7UF	K		
C23			CC73GCH1H010C	CHIP C	1.0PF	C		
C24			CK73GB1H103K	CHIP C	0.010UF	K		
C25			CK73EB0J106K	CHIP C	10UF	K		
C26			CK73GF1C224Z	CHIP C	0.22UF	Z		
C27			CK73GB1H103K	CHIP C	0.010UF	K		
C28			CC73GCH1H100D	CHIP C	10PF	D		
C29			CC73GCH1H221J	CHIP C	220PF	J		
C30			CK73EB0J106K	CHIP C	10UF	K		
C31			CK73GB1E223K	CHIP C	0.022UF	K		
C32 ,33			CK73GB1H103K	CHIP C	0.010UF	K		
C34			CC73GCH1H101J	CHIP C	100PF	J		
C35			CC73GCH1H471J	CHIP C	470PF	J		
C36 ,37			CK73GB1H103K	CHIP C	0.010UF	K		
C38			CK73GF1A105Z	CHIP C	1.0UF	Z		
C39			CK73GB1H103K	CHIP C	0.010UF	K		
C40 ,41			CC73GCH1H150J	CHIP C	15PF	J		
C43			CK73GB1H222K	CHIP C	2200PF	K		
C44			CK73GB1H103K	CHIP C	0.010UF	K		
C45			CK73GF1A105Z	CHIP C	1.0UF	Z		
C47			CK73GF1A105Z	CHIP C	1.0UF	Z		
CN1			E40-8530-05	FLAT CABLE CONNECTOR				
J1			E11-0904-05	MINIATURE PHONE JACK(STEREO MI)				
CF1			L72-0643-05	CERAMIC FILTER				
L1			L79-1294-05	LC FILTER				
L4			L92-0140-05	CHIP FERRITE				
L5		✻	L32-1058-05	FM OSCILLATING COIL				
L6 ,7			L92-0140-05	CHIP FERRITE				
L9 ,10			L92-0140-05	CHIP FERRITE				
L12			L92-0140-05	CHIP FERRITE				
X1			L77-2382-05	CRYSTAL RESONATOR(12.8MHZ,50PP)				
R1			RK73GB1J431J	CHIP R	430	J	1/16W	
R2			RK73GB1J120J	CHIP R	12	J	1/16W	
R3			RK73GB1J431J	CHIP R	430	J	1/16W	
R4			RK73GB1J331J	CHIP R	330	J	1/16W	
R6			RK73GB1J391J	CHIP R	390	J	1/16W	
R7			RK73GB1J103J	CHIP R	10K	J	1/16W	
R8			RK73GB1J473J	CHIP R	47K	J	1/16W	

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(9)

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
R9			RK73GB1J103J	CHIP R	10K	J 1/16W		
R10			RK73GB1J100J	CHIP R	10	J 1/16W		
R11			RK73GB1J821J	CHIP R	820	J 1/16W		
R12			RK73GB1J471J	CHIP R	470	J 1/16W		
R13			RK73GB1J511J	CHIP R	510	J 1/16W		
R14			RK73GB1J124J	CHIP R	120K	J 1/16W		
R15			RK73GB1J271J	CHIP R	270	J 1/16W		
R16			RK73GB1J201J	CHIP R	200	J 1/16W		
R17			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R18			RK73GB1J471J	CHIP R	470	J 1/16W		
R19			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R20			RK73GB1J242J	CHIP R	2.4K	J 1/16W		
R21			RK73GB1J183J	CHIP R	18K	J 1/16W		
R24 -26			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R31			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R32			RK73GB1J105J	CHIP R	1.0M	J 1/16W		
R33			RK73GB1J103J	CHIP R	10K	J 1/16W		
R34			RK73GB1J474J	CHIP R	470K	J 1/16W		
D1			1SS302	DIODE				
D2			KV1832E	VARIABLE CAPACITANCE DIODE				
IC1			UPC2748T-E3	ANALOGUE IC				
IC3			LV2105V	MOS-IC				
IC4			TK14583V	ANALOGUE IC				
⚠ IC7		*	XC6201P502MR	ANALOGUE IC				
Q2 ,3			2SC5065(O,Y)	TRANSISTOR				
Q4			DTA124EUA	DIGITAL TRANSISTOR				
SURROUND UNIT (X08-3130-XX)								
C1 ,2			CK73GB1H472K	CHIP C	4700PF	K		
C3 ,4			CC73GCH1H220J	CHIP C	22PF	J		
C5			CE04LW1E470M	ELECTRO	47UF	25WV		
C6			CE04LW1E470M	ELECTRO	47UF	25WV		59
C7			CE04LW1H100M	ELECTRO	10UF	50WV		5
C8 ,9			CC73GCH1H270J	CHIP C	27PF	J		
C10			CK73GB1H102K	CHIP C	1000PF	K		
C11			CK73FB1E104K	CHIP C	0.10UF	K		
C12			CK73GB1H102K	CHIP C	1000PF	K		
C15			CC73GCH1H330J	CHIP C	33PF	J		
C16			CK73GB1H102K	CHIP C	1000PF	K		
C17			CC73GCH1H330J	CHIP C	33PF	J		
C18			CC73GCH1H220J	CHIP C	22PF	J		
C19			CC73GCH1H330J	CHIP C	33PF	J		
C20			CK73GB1H103K	CHIP C	0.010UF	K		
C30			CK73FB1E104K	CHIP C	0.10UF	K		
C31			CE04RW1C4R7M	ELECTRO	4.7UF	16WV		
C32			CK73FB1E104K	CHIP C	0.10UF	K		
C33			CE04KW1C100M	ELECTRO	10UF	16WV		
C34			CE04KW1C220M	ELECTRO	22UF	16WV		
C35			CK73FB1E104K	CHIP C	0.10UF	K		
C36 ,37			CC73GCH1H180J	CHIP C	18PF	J		
C38			CC73GCH1H330J	CHIP C	33PF	J		
C39			CK73GB1H103K	CHIP C	0.010UF	K		
C101,102			CE04KW1H100M	ELECTRO	10UF	50WV		
C103-106			CK73GB1H182K	CHIP C	1800PF	K		
C107			CC73GCH1H101J	CHIP C	100PF	J		

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(10)

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C108			CK73GB1H472K	CHIP C	4700PF	K		
C109,110			CC73GCH1H220J	CHIP C	22PF	J		
C121			CC73GCH1H102J	CHIP C	1000PF	J		
C122			CC73GCH1H101J	CHIP C	100PF	J		
C123,124			CC73GCH1H220J	CHIP C	22PF	J		
C125			CK73GB1H103K	CHIP C	0.010UF	K		
C126			CC73GCH1H101J	CHIP C	100PF	J		
C127,128			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C153,154			C91-1597-05	CERAMIC	4.7UF	Z		
C201,202			CE04KW1H100M	ELECTRO	10UF	50WV		
C203,204			CK73GB1H222K	CHIP C	2200PF	K		
C205,206			CK73GB1H821K	CHIP C	820PF	K		
C207			CC73GCH1H101J	CHIP C	100PF	J		
C208			CK73GB1H472K	CHIP C	4700PF	K		
C209,210			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C301,302			CE04KW1H100M	ELECTRO	10UF	50WV		
C303-306			CK73GB1H182K	CHIP C	1800PF	K		
C307			CC73GCH1H101J	CHIP C	100PF	J		
C308			CK73GB1H472K	CHIP C	4700PF	K		
C309,310			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C401,402			CE04KW1H100M	ELECTRO	10UF	50WV		
C403			CK73GB1H182K	CHIP C	1800PF	K		
C404			CK73GB1H822K	CHIP C	8200PF	K		
C405			CK73GB1H182K	CHIP C	1800PF	K		
C406			CK73GB1H822K	CHIP C	8200PF	K		
C407			CC73GCH1H101J	CHIP C	100PF	J		
C408			CK73GB1H103K	CHIP C	0.010UF	K		
C409,410			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C411			CC73GCH1H220J	CHIP C	22PF	J		
C500-513			CK73FB1E104K	CHIP C	0.10UF	K		
C514			CC73GCH1H470J	CHIP C	47PF	J		
C515			CE04LW0J471M	ELECTRO	470UF	6.3WV		
C600-603			CK73FB1E104K	CHIP C	0.10UF	K		
C800,801			CC73GCH1H221J	CHIP C	220PF	J		
C802			CK73GB1H103K	CHIP C	0.010UF	K		
C803			CK73FB1H103K	CHIP C	0.010UF	K		
C900			CE04KW1C472M	ELECTRO	4700UF	16WV		
C901			CK73FB1E104K	CHIP C	0.10UF	K		
C908			CK73FF1C225Z	CHIP C	2.2UF	Z		
C909			CK73FB1E104K	CHIP C	0.10UF	K		
C910			CE04KW1A101M	ELECTRO	100UF	10WV		
C911			CK73FB1E104K	CHIP C	0.10UF	K		
C912			CC73GCH1H390J	CHIP C	39PF	J		
C913			CK73FB1E104K	CHIP C	0.10UF	K		
C914			CK73FB1H103K	CHIP C	0.010UF	K		
C920			CE04KW1A101M	ELECTRO	100UF	10WV		
C921			CK73FB1E104K	CHIP C	0.10UF	K		
C922			CC73GCH1H470J	CHIP C	47PF	J		
C923			CK73FB1E104K	CHIP C	0.10UF	K		
C930			CE04KW1A101M	ELECTRO	100UF	10WV		
C931			CK73FB1E104K	CHIP C	0.10UF	K		
C932			CC73GCH1H100D	CHIP C	10PF	D		
C933			CK73FB1E104K	CHIP C	0.10UF	K		
CN1			E40-3246-05	PIN ASSY				

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⑪

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
CN3			E40-8484-05	FLAT CABLE CONNECTOR				
CN4			E40-3257-05	PIN ASSY				
CN5			E40-3254-05	PIN ASSY				
J1			E63-1080-05	PIN JACK				
J800			E11-0293-05	MINIATURE PHONE JACK(2P)				
L1 ,2			L92-0510-05	CHIP FERRITE				
X1			L77-2296-05	CRYSTAL RESONATOR(12.288MHZ)				
CP51,52			R90-0714-05	MULTI-COMP	10K X4			
CP600-604			R90-0728-05	MULTI-COMP	180 X4			
R1			RK73GB1J471J	CHIP R	470	J 1/16W		
R2			RK73GB1J471J	CHIP R	470	J 1/16W		59
⚠ R3			R92-1946-05	METAL GLAZE	4.7	J 1/4W		59
R4			RK73GB1J471J	CHIP R	470	J 1/16W		5
⚠ R5			R92-1946-05	METAL GLAZE	4.7	J 1/4W		5
⚠ R6			R92-1946-05	METAL GLAZE	4.7	J 1/4W		
R7			RK73GB1J820J	CHIP R	82	J 1/16W		
R8			RK73GB1J821J	CHIP R	820	J 1/16W		
R9			RK73GB1J105J	CHIP R	1.0M	J 1/16W		
R10			RK73GB1J221J	CHIP R	220	J 1/16W		
R11			RK73GB1J183J	CHIP R	18K	J 1/16W		
R14 ,15			RK73GB1J330J	CHIP R	33	J 1/16W		
R16 -19			RK73GB1J220J	CHIP R	22	J 1/16W		
R20			RK73GB1J221J	CHIP R	220	J 1/16W		
R21			RK73GB1J220J	CHIP R	22	J 1/16W		
R22			RK73GB1J105J	CHIP R	1.0M	J 1/16W		
R23			RK73GB1J330J	CHIP R	33	J 1/16W		
R30			RK73GB1J220J	CHIP R	22	J 1/16W		
⚠ R31			R92-1946-05	METAL GLAZE	4.7	J 1/4W		
R32			RK73GB1J221J	CHIP R	220	J 1/16W		
R101,102			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R103,104			RK73GB1J104J	CHIP R	100K	J 1/16W		
R105,106			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R107,108			RK73GB1J103J	CHIP R	10K	J 1/16W		
R109,110			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R111,112			RK73GB1J221J	CHIP R	220	J 1/16W		
R121,122			RK73GB1J112J	CHIP R	1.1K	J 1/16W		
R123,124			RK73GB1J242J	CHIP R	2.4K	J 1/16W		
R125-128			RK73GB1J103J	CHIP R	10K	J 1/16W		
R129,130			RK73GB1J101J	CHIP R	100	J 1/16W		
R151,152			RK73GB1J562J	CHIP R	5.6K	J 1/16W		
R153,154			RK73GB1J432J	CHIP R	4.3K	J 1/16W		
R155-158			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R201,202			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R203,204			RK73GB1J104J	CHIP R	100K	J 1/16W		
R205,206			RK73GB1J911J	CHIP R	910	J 1/16W		
R207,208			RK73GB1J272J	CHIP R	2.7K	J 1/16W		
R209,210			RK73GB1J562J	CHIP R	5.6K	J 1/16W		
R211,212			RK73GB1J221J	CHIP R	220	J 1/16W		
R213			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R214,215			RK73GB1J562J	CHIP R	5.6K	J 1/16W		
R216			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R301,302			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R303,304			RK73GB1J104J	CHIP R	100K	J 1/16W		
R305,306			RK73GB1J102J	CHIP R	1.0K	J 1/16W		

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⑫

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R307,308			RK73GB1J103J	CHIP R	10K	J 1/16W		
R309,310			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R311,312			RK73GB1J221J	CHIP R	220	J 1/16W		
R401			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R402,403			RK73GB1J104J	CHIP R	100K	J 1/16W		
R404			RK73GB1J273J	CHIP R	27K	J 1/16W		
R405			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R406			RK73GB1J183J	CHIP R	18K	J 1/16W		
R407,408			RK73GB1J103J	CHIP R	10K	J 1/16W		
R409			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R410			RK73GB1J562J	CHIP R	5.6K	J 1/16W		
R411,412			RK73GB1J221J	CHIP R	220	J 1/16W		
R501-508			RK73GB1J104J	CHIP R	100K	J 1/16W		
R509-511			RK73GB1J221J	CHIP R	220	J 1/16W		
R512			RK73GB1J104J	CHIP R	100K	J 1/16W		
R513			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R514			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R515		✻	R92-4583-05	METAL GLAZE RESISTOR				
R541			RK73GB1J220J	CHIP R	22	J 1/16W		
R542,543			RK73GB1J101J	CHIP R	100	J 1/16W		
R601-608			RK73GB1J104J	CHIP R	100K	J 1/16W		
⚠ R900			R92-1918-05	CHIP R	0.33	J 1/4W		
⚠ R910			R92-1946-05	METAL GLAZE	4.7	J 1/4W		
⚠ R920			RS14KB3D180J	FL-PROOF RS	18	J 2W		
⚠ R930			RS14KB3D4R7J	FL-PROOF RS	4.7	J 2W		
⚠ R931			RS14KB3D5R6J	FL-PROOF RS	5.6	J 2W		
R950			RK73GB1J152J	CHIP R	1.5K	J 1/16W		
R951			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R952			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R953			RK73GB1J473J	CHIP R	47K	J 1/16W		
R954,955			RK73GB1J221J	CHIP R	220	J 1/16W		
W999			R92-0679-05	CHIP R	0 OHM			
S800			S62-0034-05	SLIDE SWITCH			YMI	
D1			DAN202U	DIODE				
D1			MA142WK	DIODE				
D1			1SS301	DIODE				
D3			DAN202U	DIODE				
D3			MA142WK	DIODE				
D3			1SS301	DIODE				
D4			DAP202U	DIODE				
D4			MA142WA	DIODE				
D4			1SS300	DIODE				
D800,801			MA111	DIODE				
⚠ D900			D2SBA20F03	DIODE				
⚠ D901,902			MA111	DIODE			YM	
D910			HZU3.9(B2)	ZENER DIODE				
D910			UDZ3.9B	ZENER DIODE				
D920			HZU3.9(B2)	ZENER DIODE				
D920			UDZ3.9B	ZENER DIODE				
D930			HZU5.6(B2)	ZENER DIODE				
D930			UDZ5.6B	ZENER DIODE				
D950			HZU5.1(B2)	ZENER DIODE				
D950			UDZ5.1B	ZENER DIODE				

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Ref. No	Add-ress	New Parts	Parts No.	Description			Desti-nation	Re-marks
D951			MA111	DIODE				
IC2			AK4112BVF	MOS-IC				
IC3			TC7WH241FU	MOS-IC				
IC4			AK4529-VQ	MOS-IC				
IC5			TC7SHU04FU	MOS-IC				
IC6			TC7WU04FU	MOS-IC				
IC7			TC74VHC175FT	MOS-IC				
IC11			NJM4565M	ANALOGUE IC				
IC11			NJM4565MD	IC(OP AMP X2)				
IC12			NJU7311AM	MOS-IC				
IC21			NJM4565M	ANALOGUE IC				
IC21			NJM4565MD	IC(OP AMP X2)				
IC31			NJM4565M	ANALOGUE IC				
IC31			NJM4565MD	IC(OP AMP X2)				
IC41			NJM4565M	ANALOGUE IC				
IC41			NJM4565MD	IC(OP AMP X2)				
IC50		✻	ADSST-MEL322	MOS-IC				
IC51		✻	27W40180N6A00	ROM IC				5
IC51		✻	27W40180N6702	ROM IC				67
IC51		✻	27W40180N6902	ROM IC				9
IC52		✻	A61L6316-12V	SRAM IC				
IC60			TC74HCT7007AF	MOS-IC				
IC61			TC74VHC125FT	MOS-IC				
⚠ IC90			BA05T	ANALOGUE IC				
⚠ IC91		✻	NJU7223F25	ANALOGUE IC				
⚠ IC92			BA033T	ANALOGUE IC				
⚠ IC93			BA05T	ANALOGUE IC				
IC123			NJM4565M	ANALOGUE IC				
IC123			NJM4565MD	IC(OP AMP X2)				
Q950			2SA1576A(R,S)	TRANSISTOR				
Q950			2SB1218A(Q,R)	TRANSISTOR				
Q951			2SC4081(R,S)	TRANSISTOR				
Q951			2SD1819A(Q,R)	TRANSISTOR				
A1			W02-2731-05	OPTIC RECEIVING MODULE				
A2			W02-2731-05	OPTIC RECEIVING MODULE				59
A3			W02-2732-05	OSCILLATING MODULE				5
AUDIO UNIT (X09-658X-XX)								
C1 ,2			CC45FSL1H221J	CERAMIC	220PF	J		
C3 ,4			CE04LW1H100M	ELECTRO	10UF	50WV		579
C3 ,4			CE04LW1H100M	ELECTRO	10UF	50WV	TE	6
C5 ,6			CC45FSL1H221J	CERAMIC	220PF	J		579
C5 ,6			CC45FSL1H221J	CERAMIC	220PF	J	TE	6
C7 ,8			CE04LW1A101M	ELECTRO	100UF	10WV		579
C7 ,8			CE04LW1A101M	ELECTRO	100UF	10WV	TE	6
C9 ,10			CC45FSL1H271J	CERAMIC	270PF	J		579
C9 ,10			CC45FSL1H271J	CERAMIC	270PF	J	TE	6
C11 ,12			CQ93FMG1H123J	MYLAR	0.012UF	J		579
C11 ,12			CQ93FMG1H123J	MYLAR	0.012UF	J	TE	6
C13 ,14			CK45FB1H332K	CERAMIC	3300PF	K		579
C13 ,14			CK45FB1H332K	CERAMIC	3300PF	K	TE	6
C15 ,16			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		579
C15 ,16			CE04LW1H4R7M	ELECTRO	4.7UF	50WV	TE	6
C17 ,18			CC45FCH1H101J	CERAMIC	100PF	J		579
C17 ,18			CC45FCH1H101J	CERAMIC	100PF	J	TE	6

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Ref. No	Add-ress	New Parts	Parts No.	Description			Desti-nation	Re-marks
C19 -38			CC45FSL1H221J	CERAMIC	220PF	J		
C44 ,45			CE04LW1E470M	ELECTRO	47UF	25WV		
C46 ,47			CQ93FMG1H823J	MYLAR	0.082UF	J		
C51 -54			C91-1573-05	MP-C	0.10UF	J		
C55 ,56			CQ93FMG1H272J	MYLAR	2700PF	J		
C57 ,58			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C62 ,63			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C64 ,65			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		679
C64 ,65			CE04KW2A3R3M	ELECTRO	3.3UF	100WV		5
C66 ,67			CC45FSL1H331J	CERAMIC	330PF	J		
C68			CC45FCH1H070D	CERAMIC	7.0PF	D		
C69			CC45FCH1H080D	CERAMIC	8.0PF	D		
C70 ,71			CK45FB1H222K	CERAMIC	2200PF	K		
C72 ,73			CC45FCH1H101J	CERAMIC	100PF	J		
C74 ,75			CE04KW1A221M	ELECTRO	220UF	10WV		5
C74 ,75			CE04KW1E101M	ELECTRO	100UF	25WV		679
C76 ,77			CC45FCH1H100D	CERAMIC	10PF	D		
C78 ,79			CK45FB1H561K	CERAMIC	560PF	K		
C82 ,83			CC45FCH1H100D	CERAMIC	10PF	D		679
C84 ,85			CE04KW1E470M	ELECTRO	47UF	25WV		5
C84 ,85			CE04KW1H220M	ELECTRO	22UF	50WV		679
C86 ,87			CC45FSL1H470J	CERAMIC	47PF	J		
C88 ,89			CC45FSL2H470J	CERAMIC	47PF	J		
C90 ,91			C91-1573-05	MP-C	0.10UF	J	KP	
C90 ,91			C91-1577-05	MP-C	0.22UF	J	YMHXTE	
C92 ,93			C91-1577-05	MP-C	0.22UF	J	YMHXTE	
C94 ,95			CK45FB1H332K	CERAMIC	3300PF	K		
C111,112			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C113,114			CE04LW1H3R3M	ELECTRO	3.3UF	50WV		
C115,116			CC45FSL1H331J	CERAMIC	330PF	J		
C117,118			CC45FCH1H050C	CERAMIC	5.0PF	C		
C119,120			CK45FB1H222K	CERAMIC	2200PF	K		
C121,122			CC45FCH1H101J	CERAMIC	100PF	J		
C123,124			CE04KW1A221M	ELECTRO	220UF	10WV		
C125,126			CC45FCH1H100D	CERAMIC	10PF	D		
C127,128			CK45FB1H561K	CERAMIC	560PF	K		
C133,134			CE04LW1H220M	ELECTRO	22UF	50WV		
C135,136			CC45FSL1H470J	CERAMIC	47PF	J		
C137,138			CC45FSL2H470J	CERAMIC	47PF	J		
C139,140			C91-1573-05	MP-C	0.10UF	J	KP	
C139,140			C91-1577-05	MP-C	0.22UF	J	YMHXTE	
C141,142			C91-1577-05	MP-C	0.22UF	J	YMHXTE	
C143,144			CK45FB1H332K	CERAMIC	3300PF	K		67
C161			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C163			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		679
C163			CE04KW2A3R3M	ELECTRO	3.3UF	100WV		5
C164			CE04LW1H3R3M	ELECTRO	3.3UF	50WV		59
C165			CC45FSL1H331J	CERAMIC	330PF	J		
C166			CC45FSL1H331J	CERAMIC	330PF	J		59
C167			CC45FCH1H060D	CERAMIC	6.0PF	D		
C168			CC45FCH1H050C	CERAMIC	5.0PF	C		59
C169			CK45FB1H222K	CERAMIC	2200PF	K		
C170			CK45FB1H222K	CERAMIC	2200PF	K		59
C171			CC45FCH1H101J	CERAMIC	100PF	J		
C172			CC45FCH1H101J	CERAMIC	100PF	J		59

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C173			CE04KW1A221M	ELECTRO	220UF	10WV		5
C173			CE04KW1E101M	ELECTRO	100UF	25WV		679
C174			CE04KW1A221M	ELECTRO	220UF	10WV		5
C175			CC45FCH1H100D	CERAMIC	10PF	D		
C176			CC45FCH1H100D	CERAMIC	10PF	D		59
C177			CK45FB1H561K	CERAMIC	560PF	K		
C178			CK45FB1H561K	CERAMIC	560PF	K		59
C181			CC45FCH1H100D	CERAMIC	10PF	D		679
C183			CE04KW1E470M	ELECTRO	47UF	25WV		5
C183			CE04KW1H220M	ELECTRO	22UF	50WV		679
C184			CE04LW1H220M	ELECTRO	22UF	50WV		59
C185			CC45FSL1H470J	CERAMIC	47PF	J		
C186			CC45FSL1H470J	CERAMIC	47PF	J		59
C187			CC45FSL2H470J	CERAMIC	47PF	J		
C188			CC45FSL2H470J	CERAMIC	47PF	J		59
C189			C91-1573-05	MP-C	0.10UF	J	KP	
C189			C91-1577-05	MP-C	0.22UF	J	YMHXTE	
C190			C91-1573-05	MP-C	0.10UF	J	KP	59
C190			C91-1577-05	MP-C	0.22UF	J		59
C191			C91-1577-05	MP-C	0.22UF	J	YMHXTE	
C192			C91-1577-05	MP-C	0.22UF	J	YMHXTE	59
C193			CK45FB1H332K	CERAMIC	3300PF	K		
C195,196			CK45FB1H332K	CERAMIC	3300PF	K		
C221,222			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		679
C223,224			CE04LW1C470M	ELECTRO	47UF	16WV		679
C225			CQ93FMG1H392J	MYLAR	3900PF	J		679
C226			CC45FCH1H100D	CERAMIC	10PF	D		679
C227,228			CE04LW1H220M	ELECTRO	22UF	50WV		59
C229,230			CE04LW1H220M	ELECTRO	22UF	50WV		679
C231,232			CC45FSL1H221J	CERAMIC	220PF	J		679
C233			CK45FB1H471K	CERAMIC	470PF	K		679
C301,302			C90-3984-05	ELECTRO	4700UF	75WV		679
C301,302		✻	C90-5749-05	ELECTRO	1000UF	74WV		5
C303			CQ93FMG1H103J	MYLAR	0.010UF	J		
C304			CE04LW0J221M	ELECTRO	220UF	6.3WV		
C305			CE04KW1V101M	ELECTRO	100UF	35WV		
C306			CE04LW2A101M	ELECTRO	100UF	100WV		
C307			CC45FSL1H181J	CERAMIC	180PF	J		5
C307			CC45FSL1H221J	CERAMIC	220PF	J		679
C308			CE04LW1H100M	ELECTRO	10UF	50WV		
C309			CE04LW1H220M	ELECTRO	22UF	50WV		
C310,311			CE04KW1H220M	ELECTRO	22UF	50WV		
C312			CE04LW1A101M	ELECTRO	100UF	10WV		
C313,314			CE04LW1E470M	ELECTRO	47UF	25WV		59
C315			CE04DW2A330M	ELECTRO	33UF	100WV		
C316			CE04LW2A100M	ELECTRO	10UF	100WV		
C317,318			CE04KW2A220M	ELECTRO	22UF	100WV		
C319,320			CC45FCH1H101J	CERAMIC	100PF	J		
C321			CC45FCH1H100D	CERAMIC	10PF	D		
C322			CC45FCH1H120J	CERAMIC	12PF	J		5
C322			CC45FCH1H150J	CERAMIC	15PF	J		679
C323			CK45FB1H102K	CERAMIC	1000PF	K		
C324,325			CE04DW1C471M	ELECTRO	470UF	16WV		
C326			CC45FCH1H220J	CERAMIC	22PF	J		5
C351-353			CC45FSL1H221J	CERAMIC	220PF	J		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C354			CQ93FMG1H122J	MYLAR	1200PF	J		
C355-359			CK45FF1H472Z	CERAMIC	4700PF	Z		
C360			CK45FF1H472Z	CERAMIC	4700PF	Z		59
C361			CE04KW1H220M	ELECTRO	22UF	50WV		
C362			CE04LW1H220M	ELECTRO	22UF	50WV		
C363			CE04KW1C220M	ELECTRO	22UF	16WV		679
C363			CE04KW1E470M	ELECTRO	47UF	25WV		5
C364			CE04HW1H2R2M	NP-ELEC	2.2UF	50WV		
C365			CE04LW1A221M	ELECTRO	220UF	10WV		
C366			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C367			CE04LW1A221M	ELECTRO	220UF	10WV		
C368			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C369			CE04HW1C330M	NP-ELEC	33UF	16WV		679
C369			CE04HW1E220M	NP-ELEC	22UF	25WV		5
C370			CK45FB1H102K	CERAMIC	1000PF	K		
C450			CK45FE2H103P	CERAMIC	0.010UF	P		
C451-453			CK45FB2H102K	CERAMIC	1000PF	K		
C501,502			CC45FSL1H221J	CERAMIC	220PF	J		
C600			CE04KW1E101M	ELECTRO	100UF	25WV		
C603,604			CE04KW1E470M	ELECTRO	47UF	25WV		5
C605,606			CC45FCH1H820J	CERAMIC	82PF	J		5
C607,608			CE04KW1H220M	ELECTRO	22UF	50WV		5
CN1			E40-8361-05	PIN ASSY				
CN2			E40-3248-05	PIN ASSY				
CN3			E40-3247-05	PIN ASSY				
CN4			E40-8484-05	FLAT CABLE CONNECTOR				
CN5			E40-8483-05	FLAT CABLE CONNECTOR				5
CN6			E40-3259-05	PIN ASSY				
CN7			E40-3253-05	PIN ASSY				
CN8			E40-3254-05	PIN ASSY				5
CN10-14			E40-4871-05	PIN ASSY				
CN15			E40-4871-05	PIN ASSY				59
CN21			E40-8429-05	SOCKET FOR PIN ASSY				
CN22			E40-3253-05	PIN ASSY				
CN51			E40-3247-05	PIN ASSY				
J1 ,2		✻	E63-1246-05	PIN JACK				
J3		✻	E63-1247-05	PIN JACK				
J4		✻	E63-1248-05	PIN JACK				679
J5		✻	E70-0150-05	SCREW TERMINAL BOARD				
J6		✻	E70-0160-05	LOCK TERMINAL BOARD				59
J7		✻	E70-0161-05	LOCK TERMINAL BOARD				67
J501			E11-0190-05	PHONE JACK	(3P)			
J501			E11-0271-05	PHONE JACK	(METAL SLEEVE)			
W1 ,2			E31-0002-00	JUMPER WIRE			KPYMIH	6
W1 ,2			E31-0002-00	JUMPER WIRE			X	6
W3 ,4			E31-0002-00	JUMPER WIRE				5
W5 -7			E31-0002-00	JUMPER WIRE				679
W8			E31-0002-00	JUMPER WIRE				679
W8			E31-0002-00	JUMPER WIRE			KPYMHX	5
W13			E31-0002-00	JUMPER WIRE			KP	59
W20 -23			E31-0002-00	JUMPER WIRE			KP	679
W24		✻	E29-1680-05	LEAD PLATE				
W25		✻	E29-1685-05	LEAD PLATE				
W26		✻	E29-1681-05	LEAD PLATE				

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
W27		✻	E29-1678-05	LEAD PLATE					
W49		✻	E29-1688-05	LEAD PLATE					
W350,351		✻	E29-1677-14	LEAD PLATE					
E501			J11-0808-05	WIRE CLAMPER				YMHXTE	
L1 -5			L39-0085-05	PHASE COMPENSATION COIL					
L6			L39-0085-05	PHASE COMPENSATION COIL					59
R1 ,2			RD14BB2C102J	RD	1.0K	J	1/6W		579
R1 ,2			RD14BB2C102J	RD	1.0K	J	1/6W	TE	6
R3 ,4			RD14BB2C303J	RD	30K	J	1/6W		579
R3 ,4			RD14BB2C303J	RD	30K	J	1/6W	TE	6
R5 ,6			RD14BB2C101J	RD	100	J	1/6W		579
R5 ,6			RD14BB2C101J	RD	100	J	1/6W	TE	6
R7 ,8			RD14BB2C361J	RD	360	J	1/6W		579
R7 ,8			RD14BB2C361J	RD	360	J	1/6W	TE	6
R9 ,10			RD14BB2C274J	RD	270K	J	1/6W		579
R9 ,10			RD14BB2C274J	RD	270K	J	1/6W	TE	6
R11 ,12			RD14BB2C223J	RD	22K	J	1/6W		579
R11 ,12			RD14BB2C223J	RD	22K	J	1/6W	TE	6
R13 ,14			RD14BB2C224J	RD	220K	J	1/6W	KPYMIH	6
R13 ,14			RD14BB2C224J	RD	220K	J	1/6W	X	6
R13 ,14			RD14BB2C473J	RD	47K	J	1/6W		579
R13 ,14			RD14BB2C473J	RD	47K	J	1/6W	TE	6
R65 ,66			RD14BB2C152J	RD	1.5K	J	1/6W		679
R65 ,66			RD14BB2C222J	RD	2.2K	J	1/6W		5
R79 ,80			RD14BB2C162J	RD	1.6K	J	1/6W		5
R79 ,80			RD14BB2C391J	RD	390	J	1/6W	KPYIHM	69
R79 ,80			RD14BB2C391J	RD	390	J	1/6W	X	69
R79 ,80			RD14BB2C431J	RD	430	J	1/6W	TE	679
R81 -84			RD14NB2E221J	RD	220	J	1/4W		
R85 ,86			RD14NB2E562J	RD	5.6K	J	1/4W		
R87 ,88			RD14NB2E331J	RD	330	J	1/4W		
R93 -96			RD14NB2E470J	RD	47	J	1/4W		
R97 ,98			RD14NB2E221J	RD	220	J	1/4W		
R99 ,100			RD14NB2E330J	RD	33	J	1/4W		
R101,102			RS14KB3D4R7J	FL-PROOF RS	4.7	J	2W		
R103,104			RS14KB3D391J	FL-PROOF RS	390	J	2W		
R129,130			RD14BB2C162J	RD	1.6K	J	1/6W		5
R129,130			RD14BB2C391J	RD	390	J	1/6W	KPYIHM	69
R129,130			RD14BB2C391J	RD	390	J	1/6W	X	69
R129,130			RD14BB2C431J	RD	430	J	1/6W	TE	679
R131-134			RD14NB2E221J	RD	220	J	1/4W		
R135,136			RD14NB2E562J	RD	5.6K	J	1/4W		
R137,138			RD14NB2E331J	RD	330	J	1/4W		
R143-146			RD14NB2E470J	RD	47	J	1/4W		
R147,148			RD14NB2E221J	RD	220	J	1/4W		
R149,150			RD14NB2E330J	RD	33	J	1/4W		
R151,152			RS14KB3D4R7J	FL-PROOF RS	4.7	J	2W		
R164			RD14BB2C104J	RD	100K	J	1/6W		59
R166			RD14BB2C222J	RD	2.2K	J	1/6W		59
R168			RD14BB2C473J	RD	47K	J	1/6W		59
R170			RD14BB2C101J	RD	100	J	1/6W		59
R172			RD14BB2C682J	RD	6.8K	J	1/6W		59
R174			RD14BB2C332J	RD	3.3K	J	1/6W		59

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R176			RD14BB2C152J	RD	1.5K	J	1/6W		59
R178			RD14BB2C152J	RD	1.5K	J	1/6W		59
R179			RD14BB2C162J	RD	1.6K	J	1/6W		5
R179			RD14BB2C391J	RD	390	J	1/6W	KPYIHM	69
R179			RD14BB2C391J	RD	390	J	1/6W	X	69
R179			RD14BB2C431J	RD	430	J	1/6W	TE	679
R180			RD14BB2C162J	RD	1.6K	J	1/6W		5
R180			RD14BB2C472J	RD	4.7K	J	1/6W	KPMX	9
R180			RD14BB2C512J	RD	5.1K	J	1/6W	E	9
R181			RD14NB2E221J	RD	220	J	1/4W		
R182			RD14NB2E221J	RD	220	J	1/4W		59
R183			RD14NB2E221J	RD	220	J	1/4W		
R184			RD14NB2E221J	RD	220	J	1/4W		59
R185			RD14NB2E562J	RD	5.6K	J	1/4W		
R186			RD14NB2E562J	RD	5.6K	J	1/4W		59
R187			RD14NB2E331J	RD	330	J	1/4W		
R188			RD14NB2E331J	RD	330	J	1/4W		59
R190			RD14BB2C473J	RD	47K	J	1/6W		59
R192			RD14BB2C102J	RD	1.0K	J	1/6W		59
R193			RD14NB2E470J	RD	47	J	1/4W		
R194			RD14NB2E470J	RD	47	J	1/4W		59
R195			RD14NB2E470J	RD	47	J	1/4W		
R196			RD14NB2E470J	RD	47	J	1/4W		59
R197			RD14NB2E221J	RD	220	J	1/4W		
R198			RD14NB2E221J	RD	220	J	1/4W		59
R199			RD14NB2E330J	RD	33	J	1/4W		
R200			RD14NB2E330J	RD	33	J	1/4W		59
R201			RS14KB3D4R7J	FL-PROOF RS	4.7	J	2W		
R202			RS14KB3D4R7J	FL-PROOF RS	4.7	J	2W		59
R223,224			RD14BB2C473J	RD	47K	J	1/6W		679
R225			RD14BB2C821J	RD	820	J	1/6W		679
R226			RD14BB2C472J	RD	4.7K	J	1/6W		679
R227,228			RD14BB2C473J	RD	47K	J	1/6W		679
R231,232			RD14BB2C102J	RD	1.0K	J	1/6W		679
R233,234			RD14BB2C104J	RD	100K	J	1/6W		679
R235,236			RD14BB2C470J	RD	47	J	1/6W		679
R237			RD14BB2C102J	RD	1.0K	J	1/6W		679
R301			RS14KB3D182J	FL-PROOF RS	1.8K	J	2W		
R303			RD14NB2E1R0J	RD	1	J	1/4W		679
R303			RD14NB2E1R0J	RD	1	J	1/4W	TE	5
R303			RD14NB2E561J	RD	560	J	1/4W	KPYMHX	5
R304			RS14KB3A103J	FL-PROOF RS	10K	J	1W		679
R304			RS14KB3A103J	FL-PROOF RS	10K	J	1W	TE	5
R304			RS14KB3A822J	FL-PROOF RS	8.2K	J	1W	KPYMHX	5
R306			RD14NB2E101J	RD	100	J	1/4W		
R307			RD14NB2E822J	RD	8.2K	J	1/4W		
R310,311			RS14KB3A680J	FL-PROOF RS	68	J	1W		
R314			RS14KB3A681J	FL-PROOF RS	680	J	1W		
⚠ R315,316			RD14NB2E271J	RD	270	J	1/4W		59
R317			RS14KB3D122J	FL-PROOF RS	1.2K	J	2W	KPTE	
R317			RS14KB3D222J	FL-PROOF RS	2.2K	J	2W	YMIHX	
R318			RS14KB3D152J	FL-PROOF RS	1.5K	J	2W	KPTE	
R318			RS14KB3D222J	FL-PROOF RS	2.2K	J	2W	YMIHX	
⚠ R321,322			RD14NB2E1R0J	RD	1	J	1/4W		
⚠ R325,326			RD14NB2E472J	RD	4.7K	J	1/4W		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
R331-333			RS14KB3D182J	FL-PROOF RS 1.8K	J	2W		
R342			RS14KB3A100J	FL-PROOF RS 10	J	1W		
R343			RS14KB3A470J	FL-PROOF RS 47	J	1W		
R354			RD14BB2C473J	RD 47K	J	1/6W		59
R355			RD14BB2C102J	RD 1.0K	J	1/6W		59
R358,359			RD14BB2C103J	RD 10K	J	1/6W		679
R358,359			RD14BB2C912J	RD 9.1K	J	1/6W		5
R383,384			RD14BB2C103J	RD 10K	J	1/6W		679
R383,384			RD14BB2C912J	RD 9.1K	J	1/6W		5
R402			RD14BB2C303J	RD 30K	J	1/6W		59
R403			RD14BB2C103J	RD 10K	J	1/6W		679
R403			RD14BB2C912J	RD 9.1K	J	1/6W		5
R404			RD14BB2C103J	RD 10K	J	1/6W		79
R404			RD14BB2C912J	RD 9.1K	J	1/6W		5
R406			RD14BB2C101J	RD 100	J	1/6W		59
R408			RD14BB2C471J	RD 470	J	1/6W		59
R410			RD14BB2C333J	RD 33K	J	1/6W		59
R436			RD14BB2C102J	RD 1.0K	J	1/6W		59
R437,438			RD14BB2C102J	RD 1.0K	J	1/6W		679
R454			RS14KB3A391J	FL-PROOF RS 390	J	1W		
⚠ R476			RD14NB2E561J	RD 560	J	1/4W		
R603,604			RD14BB2C152J	RD 1.5K	J	1/6W		679
R603,604			RD14BB2C471J	RD 470	J	1/6W		5
R611,612			RD14BB2C271J	RD 270	J	1/6W		5
R613			RD14BB2C473J	RD 47K	J	1/6W		5
R614			RD14BB2C102J	RD 1.0K	J	1/6W		5
R615,616			RD14BB2C103J	RD 10K	J	1/6W		5
R617-620			RD14BB2C472J	RD 4.7K	J	1/6W		5
R621,622			RD14BB2C133J	RD 13K	J	1/6W		5
R623,624			RD14BB2C104J	RD 100K	J	1/6W		5
VR1 -5			R32-0032-05	SEMI FIXED VARIABLE RESISTOR				
VR6			R32-0032-05	SEMI FIXED VARIABLE RESISTOR				59
⚠ K1		✻	S76-0134-05	MAGNETIC RELAY				
K2 -5			S76-0045-15	MAGNETIC RELAY			KPYIMH	
K2 -5			S76-0045-15	MAGNETIC RELAY			X	
K2 -5			S76-0098-05	MAGNETIC RELAY			TE	
D1 -5			HSS104A	DIODE				
D1 -5			1SS133	DIODE				
D6			HSS104A	DIODE				59
D6			1SS133	DIODE				59
⚠ D11 ,12			D5SBA20F03	DIODE				
⚠ D11 ,12			TS6P03G-B	DIODE				
D13			HSS104A	DIODE				
D13			1SS133	DIODE				
⚠ D14 ,15			1SR139-400	DIODE				
D16			HSS104A	DIODE				
D16			1SS133	DIODE				
D17			MTZJ16(B)	ZENER DIODE				
D17			RD16ES(B)	ZENER DIODE				
D18			MTZJ15(B)	ZENER DIODE				
D18			RD15ES(B)	ZENER DIODE				
D19			MTZJ16(B)	ZENER DIODE				
D19			RD16ES(B)	ZENER DIODE				
D20 ,21			MTZJ6.8(B)	ZENER DIODE				

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D20 ,21			RD6.8ES(B)	ZENER DIODE		
D22			MTZJ5.1(B)	ZENER DIODE		
D22			RD5.1ES(B)	ZENER DIODE		
D23			MTZJ10(B)	ZENER DIODE	KPTE	
D23			MTZJ11(B)	ZENER DIODE	YMIHX	
D23			RD10ES(B)	ZENER DIODE	KPTE	
D23			RD11ES(B)	ZENER DIODE	YMIHX	
D24			MTZJ10(B)	ZENER DIODE	TE	
D24			MTZJ15(B)	ZENER DIODE	KP	
D24			MTZJ7.5(B)	ZENER DIODE	YMIHX	
D24			RD10ES(B)	ZENER DIODE	TE	
D24			RD15ES(B)	ZENER DIODE	KP	
D24			RD7.5ES(B)	ZENER DIODE	YMIHX	
D25			MTZJ24(B)	ZENER DIODE	KPTE	
D25			MTZJ30(B)	ZENER DIODE	YMIHX	
D25			RD24ES(B)	ZENER DIODE	KPTE	
D25			RD30ES(B)	ZENER DIODE	YMHX	
D26			MTZJ5.1(B)	ZENER DIODE	TE	5
D26			RD5.1ES(B)	ZENER DIODE	TE	5
D27			1SS244	DIODE		
D28 ,29			HSS104A	DIODE		
D28 ,29			1SS133	DIODE		
D30			HSS104A	DIODE		59
D30			1SS133	DIODE		59
D32 -35			HSS104A	DIODE		
D32 -35			1SS133	DIODE		
D51 ,52			1SS244	DIODE		
D53 ,54			HSS104A	DIODE		
D53 ,54			1SS133	DIODE		
D55 ,56			1SS244	DIODE		
D57 ,58			HSS104A	DIODE		
D57 ,58			1SS133	DIODE		
D59			1SS244	DIODE		
D60			1SS244	DIODE		59
D61			HSS104A	DIODE		
D61			1SS133	DIODE		
D63			MTZJ3.9(B)	ZENER DIODE		
D63			RD3.9ES(B)	ZENER DIODE		
D64			HSS104A	DIODE		
D64			1SS133	DIODE		
D65			MTZJ3.9(B)	ZENER DIODE		
D65			RD3.9ES(B)	ZENER DIODE		
D66			HSS104A	DIODE		
D66			1SS133	DIODE		
D67			MTZJ3.9(B)	ZENER DIODE		
D67			RD3.9ES(B)	ZENER DIODE		
D68			HSS104A	DIODE		
D68			1SS133	DIODE		
D69			MTZJ3.9(B)	ZENER DIODE		
D69			RD3.9ES(B)	ZENER DIODE		
D221			MTZJ7.5(B)	ZENER DIODE		59
D221			RD7.5ES(B)	ZENER DIODE		59
D600,601			MTZJ7.5(B)	ZENER DIODE		59
D600,601			RD7.5ES(B)	ZENER DIODE		59
D602-604			HSS104A	DIODE		

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PARTS LIST

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D602-604			1SS133	DIODE		
D605-607			MTZJ7.5(B)	ZENER DIODE		5
D605-607			RD7.5ES(B)	ZENER DIODE		5
IC1			NJM4580L	ANALOGUE IC		579
IC1			NJM4580L	ANALOGUE IC	TE	6
IC2			M61516FP	ANALOGUE IC		
IC3			BU4066BC	ANALOGUE IC		5
IC4			NJM4565D	ANALOGUE IC		679
IC5			BU4066BC	ANALOGUE IC		59
IC6			NJM4580D-D	IC(OP AMP X2)		5
Q1 -4			2SA992(F,E)	TRANSISTOR		
Q5 ,6			2SA1123(R,S)	TRANSISTOR		
Q7 -10			2SC2631(R,S)	TRANSISTOR		
Q11 ,12			TRAIT3KN	TRANSISTOR		
Q13 ,14			TRAIT3KP	TRANSISTOR		
Q21 -24			2SA992(F,E)	TRANSISTOR		
Q25 ,26			2SA1123(R,S)	TRANSISTOR		
Q27 -30			2SC2631(R,S)	TRANSISTOR		
Q31 ,32			TRAIT3KN	TRANSISTOR		
Q33 ,34			TRAIT3KP	TRANSISTOR		
Q41			2SA992(F,E)	TRANSISTOR		
Q42			2SA992(F,E)	TRANSISTOR		59
Q43			2SA992(F,E)	TRANSISTOR		
Q44			2SA992(F,E)	TRANSISTOR		59
Q45			2SA1123(R,S)	TRANSISTOR		
Q46			2SA1123(R,S)	TRANSISTOR		59
Q47			2SC2631(R,S)	TRANSISTOR		
Q48			2SC2631(R,S)	TRANSISTOR		59
Q49			2SC2631(R,S)	TRANSISTOR		
Q50			2SC2631(R,S)	TRANSISTOR		59
Q51			TRAIT3KN	TRANSISTOR		
Q52			TRAIT3KN	TRANSISTOR		59
Q53			TRAIT3KP	TRANSISTOR		
Q54			TRAIT3KP	TRANSISTOR		59
Q301			KTC3200	TRANSISTOR		
Q302			DTC113ZSA	DIGITAL TRANSISTOR		
Q302			UN4219	DIGITAL TRANSISTOR		
⚠ Q303			2SC3940A(R,S)	TRANSISTOR		
⚠ Q304			2SB1640	TRANSISTOR		
⚠ Q305		✻	UN421N	DIGITAL TRANSISTOR		
⚠ Q306			2SB1640	TRANSISTOR		
⚠ Q307			2SD2525	TRANSISTOR		
Q308			2SA992(F,E)	TRANSISTOR		
Q309-312			KTC3200	TRANSISTOR		
Q313		✻	UN421N	DIGITAL TRANSISTOR	TE	5
Q331-335			2SC2878(B)	TRANSISTOR		
Q336			2SC2878(B)	TRANSISTOR		59
Q337,338			2SC2878(B)	TRANSISTOR		679
Q351,352			DTC124ESA	DIGITAL TRANSISTOR		59
Q351,352			UN4212	DIGITAL TRANSISTOR		59
Q353-357			2SC1845(F,E)	TRANSISTOR		
Q358			2SC1845(F,E)	TRANSISTOR		59
Q359			2SA992(F,E)	TRANSISTOR		
Q360,361			2SC1845(F,E)	TRANSISTOR		
Q362			2SA992(F,E)	TRANSISTOR		

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Q363,364			2SC1845(F,E)	TRANSISTOR				
Q365			2SA992(F,E)	TRANSISTOR				
Q602-604			2SC1845(F,E)	TRANSISTOR				
Q605,606			2SC2878(B)	TRANSISTOR				
Q607			2SA992(F,E)	TRANSISTOR				
Q608,609			DTC124ESA	DIGITAL TRANSISTOR				5
Q608,609			UN4212	DIGITAL TRANSISTOR				5
DISPLAY UNIT (X14-742X-XX)								
VR-6050, KRF-V6060D/-S/V7060D/-S/X9060D-G(Htype)								
D734			B30-2545-05	LED(RED3(160))				
D741-745			B30-2545-05	LED(RED3(160))				
D746-752			B30-2567-05	LED(RED(80) HI-BR)				
D753			B30-2545-05	LED(RED3(160))				
D754			B30-2567-05	LED(RED(80) HI-BR)				
D755			B30-2545-05	LED(RED3(160))				
C101			CC45FSL1H101J	CERAMIC	100PF	J		
C103			CK73GB1H103K	CHIP C	0.010UF	K		
C104			CC73GCH1H101J	CHIP C	100PF	J		
C201			CE04KW2A101M	ELECTRO	100UF	100WV		
C202			CC73GCH1H180J	CHIP C	18PF	J		67
C401			CK45FE2H103P	CERAMIC	0.010UF	P		
C402			CE04KW1E222M	ELECTRO	2200UF	25WV		
C403			CE04KW1E102M	ELECTRO	1000UF	25WV		
C404-407			CK73GB1H103K	CHIP C	0.010UF	K		
C408,409			CE04KW1C470M	ELECTRO	47UF	16WV		
C410			CC73GCH1H680J	CHIP C	68PF	J		
C411			CC73GCH1H820J	CHIP C	82PF	J		
C451			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C452			CQ93FMG1H104J	MYLAR	0.10UF	J	KP	6
C452			CQ93FMG1H393J	MYLAR	0.039UF	J	TE	67
C452			CQ93FMG1H473J	MYLAR	0.047UF	J	HX	
C452			CQ93FMG1H683J	MYLAR	0.068UF	J	YMI	6
C453			CE04LW1C332M	ELECTRO	3300UF	16WV	KP	6
C453			CE04LW1E332M	ELECTRO	3300UF	25WV	TE	67
C453			CE04LW1E332M	ELECTRO	3300UF	25WV	YMIHX	6
C454			CE04LW1H100M	ELECTRO	10UF	50WV		
C455			CE04LW0J222M	ELECTRO	2200UF	6.3WV	YMI	6
C456,457			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C458			CE04LW1H100M	ELECTRO	10UF	50WV		
C459			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C501-504			CC45FCH1H101J	CERAMIC	100PF	J		
C505,506			CK45FB1H102K	CERAMIC	1000PF	K		
C507,508			CC45FCH1H101J	CERAMIC	100PF	J		
C509			CK45FB1H471K	CERAMIC	470PF	K		
C510			CC73GCH1H101J	CHIP C	100PF	J		
C511			CC45FCH1H101J	CERAMIC	100PF	J		
C601-606			CC45FSL1H470J	CERAMIC	47PF	J		
C607			CC45FSL1H470J	CERAMIC	47PF	J	H	5
C608-611			CE04LW1E470M	ELECTRO	47UF	25WV		
C651-654			CC45FSL1H470J	CERAMIC	47PF	J	H	5
C655,656			CC45FSL1H470J	CERAMIC	47PF	J		
C657,658			CC45FSL1H470J	CERAMIC	47PF	J	H	5
C659-662			CC45FSL1H470J	CERAMIC	47PF	J		
C663			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C664			CE04LW1C470M	ELECTRO	47UF	16WV		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C665			CK45FF1H103Z	CERAMIC	0.010UF	Z	H	5
C666			CE04LW1C470M	ELECTRO	47UF	16WV	H	5
C667			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C668			CE04LW1C470M	ELECTRO	47UF	16WV		
C669			CK45FF1H103Z	CERAMIC	0.010UF	Z	H	5
C670			CE04LW1C470M	ELECTRO	47UF	16WV	H	5
C671			CE04LW1C470M	ELECTRO	47UF	16WV		
C672			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C673			CE04LW1C470M	ELECTRO	47UF	16WV		
C674-677			CE04LW1H100M	ELECTRO	10UF	50WV		
C693			CC45FSL1H101J	CERAMIC	100PF	J		
C701			CC73GCH1H221J	CHIP C	220PF	J		
C702			CE04LW1H101M	ELECTRO	100UF	50WV		
C703,704			CC73GCH1H102J	CHIP C	1000PF	J		
C705			CC73GCH1H181J	CHIP C	180PF	J		
C741			CK73EF1E105Z	CHIP C	1.0UF	Z		
C761,762			CK73GB1H103K	CHIP C	0.010UF	K		
C763,764			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C765,766			CK73GB1H103K	CHIP C	0.010UF	K		
C777			CK45FB1H102K	CERAMIC	1000PF	K		
C778			CC45FCH1H101J	CERAMIC	100PF	J		
C779			CE04LW1A101M	ELECTRO	100UF	10WV		
C780			CC73GCH1H270J	CHIP C	27PF	J		
C791			CE04RW0J470M	ELECTRO	47UF	6.3WV		
C792			CE04LW1C220M	ELECTRO	22UF	16WV		
C793,794			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C811			CK45FF1H103Z	CERAMIC	0.010UF	Z	TE	67
C812,813			CC45FCH1H270J	CERAMIC	27PF	J	TE	67
C814			CC45FCH1H101J	CERAMIC	100PF	J	TE	67
C815			CE04LW1A470M	ELECTRO	47UF	10WV	TE	67
C816			CK45FB1H561K	CERAMIC	560PF	K	TE	67
C817			CK45FF1H103Z	CERAMIC	0.010UF	Z	TE	67
C818			CC45FSL1H271J	CERAMIC	270PF	J	TE	67
C819			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	TE	67
C831			CK45FF1H103Z	CERAMIC	0.010UF	Z	YMI	6
C832			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	YMI	6
C833			CK45FF1H103Z	CERAMIC	0.010UF	Z	YMI	6
C841			CE04EW0J102M	ELECTRO	1000UF	6.3WV	KP	6
C842			C90-1826-05	BACKUP-C	0.047F	5.5WV	TE	67
C842			C90-1826-05	BACKUP-C	0.047F	5.5WV	YMIHX	
C843			CE04PW1H010M	ELECTRO	1UF	50WV		
C844			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C845			CK73GB1H103K	CHIP C	0.010UF	K		
C851			CE04LW1H100M	ELECTRO	10UF	50WV		
C852-855			CC45FSL1H221J	CERAMIC	220PF	J		
C856,857			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C858			CE04PW1A101M	ELECTRO	100UF	10WV		
C907			CK73GB1H103K	CHIP C	0.010UF	K		
C908			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C909			CK45FF1H103Z	CERAMIC	0.010UF	Z	YMI	6
CN1			E40-8386-05	PIN ASSY			YMI	6
CN2			E40-3261-05	PIN ASSY				
CN41			E40-3261-05	PIN ASSY				
CN45			E40-4245-05	PIN ASSY				
CN46			E40-4632-05	PIN ASSY			TE	67

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Ref. No	Address	New Parts	Parts No.	Description		Destination	Remarks
CN46			E40-4632-05	PIN ASSY		YMIHX	
CN47			E40-4245-05	PIN ASSY		KPHX	
CN47			E40-4245-05	PIN ASSY		TE	67
CN48			E40-4428-05	PIN ASSY		YMI	6
CN49			E40-3246-05	PIN ASSY			
CN50			E40-3251-05	PIN ASSY			
CN65			E40-3249-05	PIN ASSY			
CN67			E40-3246-05	PIN ASSY			
CN68			E40-3248-05	PIN ASSY			
CN70			E40-3261-05	PIN ASSY			
CN80			E40-3261-05	PIN ASSY			
J2			E03-0148-05	AC OUTLET		KPY	6
J3			E03-0149-05	AC OUTLET		E	7
J3			E03-0149-05	AC OUTLET		MIE	6
J4			E03-0310-05	AC OUTLET		T	6
J5			E03-0325-05	AC OUTLET		X	6
J20		✻	E63-1251-05	PIN JACK			
J21			E56-0033-05	CYLINDRICAL RECEPTACLE			
J61 ,62		✻	E63-1253-05	PIN JACK			
J63		✻	E63-1252-05	PIN JACK		H	5
J65 ,66		✻	E56-0040-05	CYLINDRICAL RECEPTACLE		H	5
J67			E56-0040-05	CYLINDRICAL RECEPTACLE			
J68			E56-0042-05	CYLINDRICAL RECEPTACLE			67
P1			E23-1785-05	TERMINAL		YMI	6
W104			E31-0002-00	JUMPER WIRE		TE	6
W111			E31-0002-00	JUMPER WIRE		KP	6
W121			E31-0002-00	JUMPER WIRE		KP	6
W141			E31-0002-00	JUMPER WIRE		YMI	6
W202			E31-0002-00	JUMPER WIRE		H	5
W302,303			E31-0002-00	JUMPER WIRE		TE	67
W719			E31-0002-00	JUMPER WIRE		YMI	6
W723			E31-0002-00	JUMPER WIRE		YMI	6
W726			E31-0002-00	JUMPER WIRE		YMI	6
W730			E31-0002-00	JUMPER WIRE		YMI	6
W950			E31-0002-00	JUMPER WIRE			67
W960			E31-0002-00	JUMPER WIRE		KP	6
⚠ F1			F05-4025-05	FUSE (SEMKO)	(250V T4A L)	TE	67
⚠ F1			F05-4025-05	FUSE (SEMKO)	(250V T4A L)	YMIHX	
⚠ F1			F50-0078-05	FUSE (5X20)		KP	6
⚠ F2			F06-1022-05	FUSE (SEMKO)	(250V T1AL)	TE	67
⚠ F2			F06-1022-05	FUSE (SEMKO)	(250V T1AL)	YMIX	6
⚠ F3			F05-4025-05	FUSE (SEMKO)	(250V T4A L)	TYMI	6
-		✻	J19-6287-03	HOLDER			
CN3 ,4			J13-0075-05	FUSE CLIP		YMI	6
CN11,12			J13-0075-05	FUSE CLIP			
CN21,22			J13-0075-05	FUSE CLIP		TE	67
CN21,22			J13-0075-05	FUSE CLIP		YMIX	6
⚠ E603			J19-6288-03	HOLDER		H	5
E701			J11-0809-05	WIRE CLAMPER			
E702,703			J11-0808-05	WIRE CLAMPER			
E705			J11-0808-05	WIRE CLAMPER			
⚠ T1			L07-2758-05	POWER TRANSFORMER		H	5
⚠ T1			L07-2758-05	POWER TRANSFORMER		HX	6

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KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

PARTS LIST

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
⚠ T1			L07-2761-05	POWER TRANSFORMER				TE	67
⚠ T1			L07-2805-05	POWER TRANSFORMER				YMI	6
⚠ T1			L07-2809-05	POWER TRANSFORMER				KP	6
X701			L78-0725-05	RESONATOR	(8.38MHZ)				
X811			L77-2002-05	CRYSTAL RESONATOR	(4.332MHZ)			TE	67
R120			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R121			RD14BB2C101J	RD	100	J	1/6W	H	5
R201			RD14NB2E472J	RD	4.7K	J	1/4W		
⚠ R410			RS14KB3D181J	FL-PROOF RS	180	J	2W		
R451			RD14BB2C134J	RD	130K	J	1/6W	TE	67
R451			RD14BB2C183J	RD	18K	J	1/6W	YMI	6
R451			RD14BB2C393J	RD	39K	J	1/6W	KP	6
⚠ R453			RD14NB2E1R0J	RD	1	J	1/4W		
R454			RD14NB2E150J	RD	15	J	1/4W	YMI	6
R454			RD14NB2E270J	RD	27	J	1/4W	KPHX	
R454			RD14NB2E270J	RD	27	J	1/4W	TE	67
R457			R92-1844-05	CARBON	3.3M	J	1/2W	KP	6
R458			RD14BB2E120J	RD	12	J	1/4W	YMI	6
R607			RD14BB2C104J	RD	100K	J	1/6W	H	5
R610			RD14BB2C750J	RD	75	J	1/6W	H	5
R651,652			RD14BB2C104J	RD	100K	J	1/6W	H	5
R653,654			RD14BB2C750J	RD	75	J	1/6W	H	5
R657,658			RD14BB2C750J	RD	75	J	1/6W	H	5
R663,664			RD14BB2C750J	RD	75	J	1/6W	H	5
⚠ R671			RS14KB3A180J	FL-PROOF RS	18	J	1W		
⚠ R674			RS14KB3A470J	FL-PROOF RS	47	J	1W		
R776			RD14NB2E100J	RD	10	J	1/4W		
R779			RK73GB1J333J	CHIP R	33K	J	1/16W		
R780			RD14NB2E100J	RD	10	J	1/4W		
R782			RK73GB1J303J	CHIP R	30K	J	1/16W		
R801,802			RK73GB1J331J	CHIP R	330	J	1/16W		
R803			RK73GB1J104J	CHIP R	100K	J	1/16W		
R805			RK73GB1J104J	CHIP R	100K	J	1/16W		
R813			RD14BB2C473J	RD	47K	J	1/6W	TE	67
R814			RD14BB2C1R0J	RD	1	J	1/6W	TE	67
R832			RD14BB2C102J	RD	1.0K	J	1/6W	YMI	6
R833			RD14BB2C332J	RD	3.3K	J	1/6W	YMI	6
R834			RD14BB2E102J	RD	1.0K	J	1/4W	YMI	6
R836			RD14BB2C101J	RD	100	J	1/6W	YMI	6
R894			RK73GB1J101J	CHIP R	100	J	1/16W		
R896-898			RK73GB1J101J	CHIP R	100	J	1/16W		
R902			RD14BB2C101J	RD	100	J	1/6W	TE	67
R910,911			RK73GB1J104J	CHIP R	100K	J	1/16W		
R914			RD14BB2C104J	RD	100K	J	1/6W	TE	67
R922-924			RK73GB1J101J	CHIP R	100	J	1/16W		
R926			RK73GB1J101J	CHIP R	100	J	1/16W		
R935			RK73GB1J101J	CHIP R	100	J	1/16W		
R938,939			RK73GB1J101J	CHIP R	100	J	1/16W		
R951,952			RK73GB1J104J	CHIP R	100K	J	1/16W		
R967-969			RK73GB1J104J	CHIP R	100K	J	1/16W		
R970			RK73GB1J153J	CHIP R	15K	J	1/16W		
R971,972			RK73GB1J104J	CHIP R	100K	J	1/16W		
R977			RK73GB1J123J	CHIP R	12K	J	1/16W	YMI	6
R977			RK73GB1J273J	CHIP R	27K	J	1/16W	TE	67
R977			RK73GB1J472J	CHIP R	4.7K	J	1/16W	HX	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R993			RK73GB1J101J	CHIP R	100	J	1/16W		
⚠ R997			RD14NB2E1R0J	RD	1	J	1/4W		
⚠ K451			S76-0107-05	MAGNETIC RELAY				KP	
⚠ K451			S76-0110-05	MAGNETIC RELAY				TE	
⚠ K451			S76-0110-05	MAGNETIC RELAY				YMIHX	
⚠ S1			S62-0001-05	SLIDE SWITCH				YMI	6
⚠ S2			S68-0142-05	PUSH SWITCH				TE	
⚠ S2			S68-0142-05	PUSH SWITCH				YMIHX	
S701-725			S70-0086-05	TACT SWITCH					
S731-733			S70-0086-05	TACT SWITCH					
S761,762		✻	T99-0663-05	ROTARY ENCODER					
S763			T99-0664-05	ROTARY ENCODER					
D201			MTZJ20(B)	ZENER DIODE					
D201			RD20ES(B)	ZENER DIODE					
D202			MTZJ30(B)	ZENER DIODE					
D202			RD30ES(B)	ZENER DIODE					
⚠ D401			D2SBA20F03	DIODE					
D451,452			HSS104A	DIODE					
D451,452			1SS133	DIODE					
D453			S1ZB20(4101)	DIODE					
D454			HSS104A	DIODE					
D454			1SS133	DIODE					
D455			RB721Q	DIODE					
D501-504			HSS104A	DIODE					
D501-504			1SS133	DIODE					
D652			HSS104A	DIODE					
D652			1SS133	DIODE					
D655,656			MTZJ5.6(B)	ZENER DIODE					
D655,656			RD5.6ES(B)	ZENER DIODE					
D776			MTZJ5.1(B)	ZENER DIODE					
D776			RD5.1ES(B)	ZENER DIODE					
⚠ D791			HSS104A	DIODE					
⚠ D791			1SS133	DIODE					
D801-806			HSS104A	DIODE					
D801-806			1SS133	DIODE					
D831			HSS104A	DIODE				YMI	6
D831			1SS133	DIODE				YMI	6
⚠ D841			RB721Q	DIODE					
D842			HSS104A	DIODE					
D842			1SS133	DIODE					
⚠ D843			RB721Q	DIODE					
D844			HSS104A	DIODE					
D844			1SS133	DIODE					
D846			HSS104A	DIODE					
D846			1SS133	DIODE					
D961-964			HSS104A	DIODE					
D961-964			1SS133	DIODE					
ED78		✻	HNA-16MM36T	FLUORESCENT INDICATOR TUBE					
⚠ IC45			BA05T	ANALOGUE IC					
IC65		✻	LA79510M	ANALOGUE IC					
IC74			BU2090	ANALOGUE IC					
IC78			LC75711NED	MOS-IC					
⚠ IC79		✻	XC6202P502PR	ANALOGUE IC					

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
IC81			BU1923	ANALOGUE IC			TE	67
IC83			S-80840ANY	ANALOGUE IC			YMI	6
IC84			S-80840ANY	ANALOGUE IC				
IC90		✻	MN101C49GGH	MI-COM IC				67
IC90		✻	MN101C49GGK	MI-COM IC				5
⚠ IC401			KIA7812API	ANALOGUE IC				
⚠ IC402			KIA7912PI	ANALOGUE IC				
⚠ Q65			2SD2525	TRANSISTOR				
⚠ Q66			2SB1640	TRANSISTOR				
Q201			2SD2012	TRANSISTOR				
Q451			2SC1740S(Q,R)	TRANSISTOR				
Q451			2SC2785(F,E)	TRANSISTOR				
Q731			DTC113ZSA	DIGITAL TRANSISTOR				
Q731			UN4219	DIGITAL TRANSISTOR				
Q776			2SC1740S(Q,R)	TRANSISTOR				
Q776			2SC2785(F,E)	TRANSISTOR				
Q777,778			DTC124ESA	DIGITAL TRANSISTOR				
Q777,778			UN4212	DIGITAL TRANSISTOR				
Q841			2SC1740S(Q,R)	TRANSISTOR				
Q841			2SC2785(F,E)	TRANSISTOR				
Q842			2SA1175(F,E)	TRANSISTOR				
Q842			2SA933AS(Q,R)	TRANSISTOR				
Q843			DTC113ZSA	DIGITAL TRANSISTOR				
Q843			UN4219	DIGITAL TRANSISTOR				
⚠ TH1		✻	MF-R090	THERMISTOR				
A791			W02-2769-05	ELECTRIC CIRCUIT MODULE				

DISPLAY UNIT (X14-743X-XX)
VR-6060/6070, KRF-V8060D/-S/-G/X9060D/-S/-G

D734			B30-2545-05	LED(RED3(160))				
D741-745			B30-2545-05	LED(RED3(160))				
D746-752			B30-2567-05	LED(RED(80) HI-BR)				
D753			B30-2545-05	LED(RED3(160))				
D754			B30-2567-05	LED(RED(80) HI-BR)				
D755			B30-2545-05	LED(RED3(160))				
C101			CC45FSL1H101J	CERAMIC	100PF	J		
C103			CK73GB1H103K	CHIP C	0.010UF	K		
C104			CC73GCH1H101J	CHIP C	100PF	J		
C201			CE04KW2A101M	ELECTRO	100UF	100WV		
C202			CC73GCH1H180J	CHIP C	18PF	J		9
C401			CK45FE2H103P	CERAMIC	0.010UF	P		
C402			CE04KW1E222M	ELECTRO	2200UF	25WV		
C403			CE04KW1E102M	ELECTRO	1000UF	25WV		
C404-407			CK73GB1H103K	CHIP C	0.010UF	K		
C408,409			CE04KW1C470M	ELECTRO	47UF	16WV		
C410			CC73GCH1H680J	CHIP C	68PF	J		
C411			CC73GCH1H820J	CHIP C	82PF	J		
C451			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C452			CQ93FMG1H104J	MYLAR	0.10UF	J	KP	
C452			CQ93FMG1H393J	MYLAR	0.039UF	J	TE	
C452			CQ93FMG1H473J	MYLAR	0.047UF	J	X	
C452			CQ93FMG1H683J	MYLAR	0.068UF	J	YM	
C453			CE04LW1C332M	ELECTRO	3300UF	16WV	KP	
C453			CE04LW1E332M	ELECTRO	3300UF	25WV	YMXTE	
C454			CE04LW1H100M	ELECTRO	10UF	50WV		

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C455			CE04LW0J222M	ELECTRO	2200UF	6.3WV	YM	
C456,457			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C458			CE04LW1H100M	ELECTRO	10UF	50WV		
C459			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C501-504			CC45FCH1H101J	CERAMIC	100PF	J		
C505,506			CK45FB1H102K	CERAMIC	1000PF	K		
C507,508			CC45FCH1H101J	CERAMIC	100PF	J		
C509			CK45FB1H471K	CERAMIC	470PF	K		
C510			CC73GCH1H101J	CHIP C	100PF	J		
C511			CC45FCH1H101J	CERAMIC	100PF	J		
C601-606			CC45FSL1H470J	CERAMIC	47PF	J		
C607			CC45FSL1H470J	CERAMIC	47PF	J		5
C608-611			CE04LW1E470M	ELECTRO	47UF	25WV		
C651-662			CC45FSL1H470J	CERAMIC	47PF	J		
C663			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C664			CE04LW1C470M	ELECTRO	47UF	16WV		
C665			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C666			CE04LW1C470M	ELECTRO	47UF	16WV		
C667			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C668			CE04LW1C470M	ELECTRO	47UF	16WV		
C669			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C670,671			CE04LW1C470M	ELECTRO	47UF	16WV		
C672			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C673			CE04LW1C470M	ELECTRO	47UF	16WV		
C674-677			CE04LW1H100M	ELECTRO	10UF	50WV		
C693			CC45FSL1H101J	CERAMIC	100PF	J		
C701			CC73GCH1H221J	CHIP C	220PF	J		
C702			CE04LW1H101M	ELECTRO	100UF	50WV		
C703,704			CC73GCH1H102J	CHIP C	1000PF	J		
C705			CC73GCH1H181J	CHIP C	180PF	J		
C741			CK73EF1E105Z	CHIP C	1.0UF	Z		
C761,762			CK73GB1H103K	CHIP C	0.010UF	K		
C763,764			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C765,766			CK73GB1H103K	CHIP C	0.010UF	K		
C777			CK45FB1H102K	CERAMIC	1000PF	K		
C778			CC45FCH1H101J	CERAMIC	100PF	J		
C779			CE04LW1A101M	ELECTRO	100UF	10WV		
C780			CC73GCH1H270J	CHIP C	27PF	J		
C791			CE04RW0J470M	ELECTRO	47UF	6.3WV		
C792			CE04LW1C220M	ELECTRO	22UF	16WV		
C793,794			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C811			CK45FF1H103Z	CERAMIC	0.010UF	Z	TE	
C812,813			CC45FCH1H270J	CERAMIC	27PF	J	TE	
C814			CC45FCH1H101J	CERAMIC	100PF	J	TE	
C815			CE04LW1A470M	ELECTRO	47UF	10WV	TE	
C816			CK45FB1H561K	CERAMIC	560PF	K	TE	
C817			CK45FF1H103Z	CERAMIC	0.010UF	Z	TE	
C818			CC45FSL1H271J	CERAMIC	270PF	J	TE	
C819			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	TE	
C831			CK45FF1H103Z	CERAMIC	0.010UF	Z	YM	
C832			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	YM	
C833			CK45FF1H103Z	CERAMIC	0.010UF	Z	YM	
C841			CE04EW0J102M	ELECTRO	1000UF	6.3WV	KP	
C842			C90-1826-05	BACKUP-C	0.047F	5.5WV	YMXTE	
C843			CE04PW1H010M	ELECTRO	1UF	50WV		

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PARTS LIST

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C844			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C845			CK73GB1H103K	CHIP C	0.010UF	K		
C851			CE04LW1H100M	ELECTRO	10UF	50WV		
C852-855			CC45FSL1H221J	CERAMIC	220PF	J		
C856,857			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C858			CE04PW1A101M	ELECTRO	100UF	10WV		
C907			CK73GB1H103K	CHIP C	0.010UF	K		
C908			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C909			CK73GB1H103K	CHIP C	0.010UF	K	YM	
CN1			E40-8386-05	PIN ASSY			YM	
CN2			E40-3261-05	PIN ASSY				
CN41			E40-3261-05	PIN ASSY				
CN45			E40-4245-05	PIN ASSY				
CN46			E40-4632-05	PIN ASSY			YMXTE	
CN47			E40-4245-05	PIN ASSY			KPXTE	
CN48			E40-4428-05	PIN ASSY			YM	
CN49			E40-3246-05	PIN ASSY				
CN50			E40-3251-05	PIN ASSY				
CN65			E40-3249-05	PIN ASSY				
CN67			E40-3246-05	PIN ASSY				
CN68			E40-3248-05	PIN ASSY				
CN70			E40-3261-05	PIN ASSY				
CN80			E40-3261-05	PIN ASSY				
⚠ J2			E03-0148-05	AC OUTLET			KPY	
⚠ J3			E03-0149-05	AC OUTLET			ME	
⚠ J4			E03-0310-05	AC OUTLET			T	
⚠ J5			E03-0325-05	AC OUTLET			X	
J20		✻	E63-1251-05	PIN JACK				
J21			E56-0033-05	CYLINDRICAL RECEPTACLE				
J61 ,62		✻	E63-1253-05	PIN JACK				
J63		✻	E63-1252-05	PIN JACK				5
J65 -67		✻	E56-0040-05	CYLINDRICAL RECEPTACLE				
W961			E31-0002-00	JUMPER WIRE				9
⚠ F1			F05-4025-05	FUSE (SEMKO)	(250V T4A L)		YMXTE	
⚠ F1			F50-0078-05	FUSE(5X20)			KP	
⚠ F2			F06-1022-05	FUSE (SEMKO)	(250V T1AL)		YMXTE	
⚠ F3			F05-4025-05	FUSE (SEMKO)	(250V T4A L)		YM	
-		✻	J19-6287-03	HOLDER				
CN3 ,4			J13-0075-05	FUSE CLIP			YM	
CN11,12			J13-0075-05	FUSE CLIP				
CN21,22			J13-0075-05	FUSE CLIP			YMXTE	
E701			J11-0809-05	WIRE CLAMPER				
E702,703			J11-0808-05	WIRE CLAMPER				
E705			J11-0808-05	WIRE CLAMPER				
⚠ T1			L07-2758-05	POWER TRANSFORMER			X	
⚠ T1			L07-2761-05	POWER TRANSFORMER			TE	
⚠ T1			L07-2805-05	POWER TRANSFORMER			YM	
⚠ T1			L07-2809-05	POWER TRANSFORMER			KP1	
X701			L78-0725-05	RESONATOR	(8.38MHZ)			
X811			L77-2002-05	CRYSTAL RESONATOR	(4.332MHZ)		TE	
R120			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R121			RD14BB2C101J	RD	100	J 1/6W		5
R201			RD14NB2E472J	RD	4.7K	J 1/4W		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
⚠ R410			RS14KB3D181J	FL-PROOF RS	180	J 2W		
⚠ R453			RD14NB2E1R0J	RD	1	J 1/4W		
R454			RD14NB2E150J	RD	15	J 1/4W	YM	
R454			RD14NB2E270J	RD	27	J 1/4W	KPXTE	
⚠ R457			R92-1844-05	CARBON	3.3M	J 1/2W	KP	
⚠ R458			RD14NB2E120J	RD	12	J 1/4W	YM	
R607			RD14BB2C104J	RD	100K	J 1/6W		5
R610			RD14BB2C104J	RD	100K	J 1/6W		5
⚠ R671			RS14KB3A180J	FL-PROOF RS	18	J 1W		
⚠ R674			RS14KB3A470J	FL-PROOF RS	47	J 1W		
R776			RD14NB2E100J	RD	10	J 1/4W		
R779			RK73GB1J333J	CHIP R	33K	J 1/16W		
R780			RD14NB2E100J	RD	10	J 1/4W		
R782			RK73GB1J303J	CHIP R	30K	J 1/16W		
R801,802			RK73GB1J331J	CHIP R	330	J 1/16W		
R803			RK73GB1J104J	CHIP R	100K	J 1/16W		
R805			RK73GB1J104J	CHIP R	100K	J 1/16W		
R834			RD14NB2E102J	RD	1.0K	J 1/4W	YM	
R894			RK73GB1J101J	CHIP R	100	J 1/16W		
R896-898			RK73GB1J101J	CHIP R	100	J 1/16W		
R910,911			RK73GB1J104J	CHIP R	100K	J 1/16W		
R922-924			RK73GB1J101J	CHIP R	100	J 1/16W		
R926			RK73GB1J101J	CHIP R	100	J 1/16W		
R935			RK73GB1J101J	CHIP R	100	J 1/16W		
R938,939			RK73GB1J101J	CHIP R	100	J 1/16W		
R951,952			RK73GB1J104J	CHIP R	100K	J 1/16W		
R967-969			RK73GB1J104J	CHIP R	100K	J 1/16W		
R970			RK73GB1J153J	CHIP R	15K	J 1/16W		
R971,972			RK73GB1J104J	CHIP R	100K	J 1/16W		
R977			RK73GB1J123J	CHIP R	12K	J 1/16W	YM	
R977			RK73GB1J273J	CHIP R	27K	J 1/16W	TE	
R977			RK73GB1J472J	CHIP R	4.7K	J 1/16W	X	
R993			RK73GB1J101J	CHIP R	100	J 1/16W		
⚠ R997			RD14NB2E1R0J	RD	1	J 1/4W		
W724,725			E31-0001-00	JUMPER WIRE				
⚠ K451			S76-0107-05	MAGNETIC RELAY			KP	
⚠ K451			S76-0110-05	MAGNETIC RELAY			YMXTE	
⚠ S1			S62-0001-05	SLIDE SWITCH			YM	
⚠ S2			S68-0142-05	PUSH SWITCH			YMXTE	
S701-725			S70-0086-05	TACT SWITCH				
S731-733			S70-0086-05	TACT SWITCH				
S761,762		✻	T99-0663-05	ROTARY ENCODER				
S763			T99-0664-05	ROTARY ENCODER				
D201			MTZJ20(B)	ZENER DIODE				
D201			RD20ES(B)	ZENER DIODE				
D202			MTZJ30(B)	ZENER DIODE				
D202			RD30ES(B)	ZENER DIODE				
⚠ D401			D2SBA20F03	DIODE				
D451,452			HSS104A	DIODE				
D451,452			1SS133	DIODE				
⚠ D453			S1ZB20(4101)	DIODE				
D454			HSS104A	DIODE				
D454			1SS133	DIODE				

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
D455			RB721Q	DIODE		
D501-504			HSS104A	DIODE		
D501-504			1SS133	DIODE		
D652			HSS104A	DIODE		
D652			1SS133	DIODE		
D655,656			MTZJ5.6(B)	ZENER DIODE		
D655,656			RD5.6ES(B)	ZENER DIODE		
D776			MTZJ5.1(B)	ZENER DIODE		
D776			RD5.1ES(B)	ZENER DIODE		
⚠ D791			HSS104A	DIODE		
⚠ D791			1SS133	DIODE		
D801-806			HSS104A	DIODE		
D801-806			1SS133	DIODE		
D831			HSS104A	DIODE	YM	
D831			1SS133	DIODE	YM	
⚠ D841			RB721Q	DIODE		
D842			HSS104A	DIODE		
D842			1SS133	DIODE		
D843			RB721Q	DIODE		
D844			HSS104A	DIODE		
D844			1SS133	DIODE		
D846			HSS104A	DIODE		
D846			1SS133	DIODE		
D961-964			HSS104A	DIODE		
D961-964			1SS133	DIODE		
ED78		✻	HNA-16MM36T	FLUORESCENT INDICATOR TUBE		
⚠ IC45			BA05T	ANALOGUE IC		
IC65		✻	LA79510M	ANALOGUE IC		
IC74			BU2090	ANALOGUE IC		
IC78			LC75711NED	MOS-IC		
⚠ IC79		✻	XC6202P502PR	ANALOGUE IC		
IC81			BU1923	ANALOGUE IC	TE	
IC83			S-80840ANY	ANALOGUE IC	YM	
IC84			S-80840ANY	ANALOGUE IC		
IC90		✻	MN101C49GGH	MI-COM IC		9
IC90		✻	MN101C49GGK	MI-COM IC		5
⚠ IC401			KIA7812API	ANALOGUE IC		
⚠ IC402			KIA7912PI	ANALOGUE IC		
⚠ Q65			2SD2525	TRANSISTOR		
⚠ Q66			2SB1640	TRANSISTOR		
Q201			2SD2012	TRANSISTOR		
Q451			2SC1740S(Q,R)	TRANSISTOR		
Q451			2SC2785(F,E)	TRANSISTOR		
Q731			DTC113ZSA	DIGITAL TRANSISTOR		
Q731			UN4219	DIGITAL TRANSISTOR		
Q776			2SC1740S(Q,R)	TRANSISTOR		
Q776			2SC2785(F,E)	TRANSISTOR		
Q777,778			DTC124ESA	DIGITAL TRANSISTOR		
Q777,778			UN4212	DIGITAL TRANSISTOR		
Q841			2SC1740S(Q,R)	TRANSISTOR		
Q841			2SC2785(F,E)	TRANSISTOR		
Q842			2SA1175(F,E)	TRANSISTOR		
Q842			2SA933AS(Q,R)	TRANSISTOR		
Q843			DTC113ZSA	DIGITAL TRANSISTOR		
Q843			UN4219	DIGITAL TRANSISTOR		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
⚠ TH1		✻	MF-R090	THERMISTOR				
A791			W02-2769-05	ELECTRIC CIRCUIT MODULE				
SUB CIRCUIT UNIT (X25-649X-XX)								
C101-109			CC45FSL1H221J	CERAMIC	220PF	J		
C110-115			CE04LW1C470M	ELECTRO	47UF	16WV		
C116			CE04LW1H220M	ELECTRO	22UF	50WV		
C117			CE04LW1C470M	ELECTRO	47UF	16WV		
C118			CE04LW1A471M	ELECTRO	470UF	10WV		
C119			CE04LW1H220M	ELECTRO	22UF	50WV		
C120			CE04LW1C470M	ELECTRO	47UF	16WV		
C121			CE04LW1A471M	ELECTRO	470UF	10WV		
C122			CE04LW1H220M	ELECTRO	22UF	50WV		
C123			CE04LW1C470M	ELECTRO	47UF	16WV		
C124			CE04LW1A471M	ELECTRO	470UF	10WV		
C125			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C126			CE04LW1C470M	ELECTRO	47UF	16WV		
C127-129			CC45FCH1H270J	CERAMIC	27PF	J		
C201			CE04LW1H100M	ELECTRO	10UF	50WV	KP	
C202			CK45FF1H103Z	CERAMIC	0.010UF	Z	KP	
C203			CQ93FMG1H683J	MYLAR	0.068UF	J	KP	
C204			CK45FF1H103Z	CERAMIC	0.010UF	Z	KP	5
C205,206			CK45FF1H103Z	CERAMIC	0.010UF	Z	KP	
C207			CE04LW0J222M	ELECTRO	2200UF	6.3WV	KP	
C208			CE04LW0J221M	ELECTRO	220UF	6.3WV	KP	
C209			CK45FF1H103Z	CERAMIC	0.010UF	Z	KP	
C210			CC45FSL1H221J	CERAMIC	220PF	J	KP	
C211			CC45FSL1H101J	CERAMIC	100PF	J	KP	5
C212,213			CC45FSL1H101J	CERAMIC	100PF	J	KP	
C214,215			CK45FF1H103Z	CERAMIC	0.010UF	Z	KP	
C216			CE04LW1H010M	ELECTRO	1.0UF	50WV	KP	
C301-310			CC45FSL1H221J	CERAMIC	220PF	J		5
C311-313			CK45FB1H332K	CERAMIC	3300PF	K		
C315-317			CC45FSL1H101J	CERAMIC	100PF	J		
C401-406			CE04KW1H220M	ELECTRO	22UF	50WV		5
C407-412			CC45FSL1H221J	CERAMIC	220PF	J		5
C419			CE04DW1C471M	ELECTRO	470UF	16WV		5
C420			CE04KW1C101M	ELECTRO	100UF	16WV		5
C425,426			CC45FCH1H101J	CERAMIC	100PF	J		5
C427-430			CC45FCH1H100D	CERAMIC	10PF	D		5
C431-436			CE04KW1E470M	ELECTRO	47UF	25WV		5
C437,438			CE04HW1H010M	NP-ELEC	1.0UF	50WV		5
C439,440			CE04KW1E470M	ELECTRO	47UF	25WV		5
C441,442			CE04KW1A101M	ELECTRO	100UF	10WV		5
C443-446			CE04KW1H220M	ELECTRO	22UF	50WV		5
C447			CE04LW1H100M	ELECTRO	10UF	50WV		5
C448			CE04KW2A010M	ELECTRO	1.0UF	100WV		5
C449,450			CE04KW1H220M	ELECTRO	22UF	50WV		5
C451			CE04KW1E221M	ELECTRO	220UF	25WV		5
C452			CE04KW1H220M	ELECTRO	22UF	50WV		5
C453,454			CC45FSL1H221J	CERAMIC	220PF	J		5
C457			CQ93FMG1H222J	MYLAR	2200PF	J		5
C458			CC45FCH1H100D	CERAMIC	10PF	D		5
C459			CC45FSL1H470J	CERAMIC	47PF	J		5

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CN101			E40-3262-05	PIN ASSY					
CN201			E40-8531-05	FLAT CABLE CONNECTOR				KP	
CN202			E40-3251-05	PIN ASSY				KP	
CN301			E40-8483-05	FLAT CABLE CONNECTOR					5
CN302			E40-4101-05	PIN ASSY					
CN303			E40-3248-05	PIN ASSY					5
CN304			E40-4248-05	PIN ASSY					
J101		✻	E63-1249-05	PIN JACK					
J102		✻	E63-1250-05	PIN JACK					
J201			E11-0389-05	MINIATURE PHONE JACK(3.5 STERE)				KP	5
J202			E11-0291-05	MINIATURE PHONE JACK(2P)				KP	
J301		✻	E70-0150-05	SCREW TERMINAL BOARD					
J302		✻	E63-1246-05	PIN JACK					5
J303		✻	E63-1248-05	PIN JACK					5
W2 ,3			E31-0002-00	JUMPER WIRE					5
W5			E31-0002-00	JUMPER WIRE				KP	9
W15			E31-0002-00	JUMPER WIRE					5
W17			E31-0002-00	JUMPER WIRE					5
W26 -31			E31-0002-00	JUMPER WIRE					5
W43			E31-0002-00	JUMPER WIRE					5
W55 -64			E31-0002-00	JUMPER WIRE				YMHXTE	5
W66			E31-0002-00	JUMPER WIRE					5
L201			L40-1011-58	SMALL FIXED INDUCTOR(100UH,K)				KP	
L202			L92-0017-05	FERRITE CORE				KP	
R201			RD14BB2C102J	RD	1.0K	J	1/6W	KP	5
R213,214			RD14NB2E471J	RD	470	J	1/4W	KP	
R215			RD14BB2C473J	RD	47K	J	1/6W	KP	5
R216			RD14BB2C221J	RD	220	J	1/6W	KP	5
R217			RD14NB2E471J	RD	470	J	1/4W	KP	5
R301-303			RD14BB2C221J	RD	220	J	1/6W		5
R305-310			RD14BB2C221J	RD	220	J	1/6W		5
R311-320			RD14BB2C102J	RD	1.0K	J	1/6W		5
R321-330			RD14BB2C104J	RD	100K	J	1/6W		5
R331-340			RD14BB2C470J	RD	47	J	1/6W		5
R341,342			RD14BB2C102J	RD	1.0K	J	1/6W		5
R343,344			RD14BB2C221J	RD	220	J	1/6W		5
R345-352			RD14BB2C102J	RD	1.0K	J	1/6W		5
R353-360			RD14BB2C221J	RD	220	J	1/6W		5
R362			RD14BB2C221J	RD	220	J	1/6W		5
R401,402			RD14BB2C103J	RD	10K	J	1/6W		5
R403-406			RD14BB2C223J	RD	22K	J	1/6W		5
R407,408			RD14BB2C471J	RD	470	J	1/6W		5
R409-414			RD14BB2C472J	RD	4.7K	J	1/6W		5
R415-418			RD14BB2C473J	RD	47K	J	1/6W		5
R419-424			RD14BB2C220J	RD	22	J	1/6W		5
⚠ R425			RD14NB2E561J	RD	560	J	1/4W		5
R426,427			RD14BB2C102J	RD	1.0K	J	1/6W		5
R430,431			RD14BB2C103J	RD	10K	J	1/6W		5
R432,433			RD14BB2C102J	RD	1.0K	J	1/6W		5
R434			RS14KB3A101J	FL-PROOF RS	100	J	1W		5
R435-440			RD14BB2C103J	RD	10K	J	1/6W		5
R441-446			RD14BB2C474J	RD	470K	J	1/6W		5
R447			RD14BB2C102J	RD	1.0K	J	1/6W		5
R448			RD14BB2C103J	RD	10K	J	1/6W		5

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Ref. No	Add-ress	New Parts	Parts No.	Description				Desti-nation	Re-marks
R449			RD14BB2C153J	RD	15K	J	1/6W		5
⚠ R450			RD14NB2E561J	RD	560	J	1/4W		5
R451			RD14NB2E102J	RD	1.0K	J	1/4W		5
R452			RS14KB3A470J	FL-PROOF RS	47	J	1W		5
R453,454			RD14BB2C223J	RD	22K	J	1/6W		5
R455,456			RD14BB2C473J	RD	47K	J	1/6W		5
R457			RD14BB2C103J	RD	10K	J	1/6W		5
R458			RD14BB2C474J	RD	470K	J	1/6W		5
R459			RD14BB2C911J	RD	910	J	1/6W		5
R460			RD14BB2C472J	RD	4.7K	J	1/6W		5
R461,462			RD14BB2C220J	RD	22	J	1/6W		5
R463,464			RD14BB2C103J	RD	10K	J	1/6W		5
D201,202			HSS104A	DIODE				KP	
D201,202			1SS133	DIODE				KP	
D203,204			HSS104A	DIODE				KP	5
D203,204			1SS133	DIODE				KP	5
D205,206			HSS104A	DIODE				KP	
D205,206			1SS133	DIODE				KP	
D401			MTZJ3.9(B)	ZENER DIODE					5
D401			RD3.9ES(B)	ZENER DIODE					5
D402			MTZJ5.1(B)	ZENER DIODE					5
D402			RD5.1ES(B)	ZENER DIODE					5
IC101		✻	NJM2284D	ANALOGUE IC					
IC102		✻	BA7666FS	ANALOGUE IC					
IC201			BA05T	ANALOGUE IC				KP	
IC202			TC74HC00AP	IC(2INPUT NAND GATE)				KP	5
IC401			NJM4580D-D	IC(OP AMP X2)					5
IC402			NJM4565D-D	IC(OP AMP X2)					5
IC403			NJM4580D-D	IC(OP AMP X2)					5
IC404			NJM4565D-D	IC(OP AMP X2)					5
Q101			DTC124ESA	DIGITAL TRANSISTOR					
Q101			UN4212	DIGITAL TRANSISTOR					
Q201			DTC124ESA	DIGITAL TRANSISTOR				KP	
Q201			UN4212	DIGITAL TRANSISTOR				KP	
Q202,203			KTC3199(Y,GR)	TRANSISTOR				KP	
Q202,203			2SC1740S(Q,R)	TRANSISTOR				KP	
Q202,203			2SC2785(F,E)	TRANSISTOR				KP	
Q204			KTA1267(Y,GR)	TRANSISTOR				KP	
Q204			2SA1175(F,E)	TRANSISTOR				KP	
Q204			2SA933AS(Q,R)	TRANSISTOR				KP	
Q301-320			2SC2878(B)	TRANSISTOR					5
Q401,402			DTA124ESA	DIGITAL TRANSISTOR					5
Q401,402			UN4112	DIGITAL TRANSISTOR					5
Q403-408			2SC2878(B)	TRANSISTOR					5
Q409			DTA124ESA	DIGITAL TRANSISTOR					5
Q409			UN4112	DIGITAL TRANSISTOR					5
Q411,412			2SC2878(B)	TRANSISTOR					5

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico **C :** China **I :** Malaysia
Y : PX(Far East,Hawaii) **T :** England **E :** Europe **G :** Germany **V :** China(Shanghai)
Y : AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components .

PARTS LIST

HOW TO READ THE PARTS LIST
ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	CNT	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
	ABB.	X	P	C	T	E	G	H	I
VR-6050	6	-	P	-	-	-	-	-	-
KRF-V6060D		-	-	-	-	E	-	-	-
KRF-V6060D-S		X	-	-	T	E	-	H	I
KRF-V7060D	7	-	-	-	-	E	-	-	-
KRF-V7060D-S		-	-	-	-	E	-	-	-
VR-6060	9	-	P	-	-	-	-	-	-
KRF-V8060D		-	-	-	-	E	-	-	-
KRF-V8060D-S		X	-	-	-	E	-	-	-
KRF-V8060D-G		-	-	-	-	-	-	-	-
VR-6070	5	-	P	-	-	-	-	-	-
KRF-X9060D		-	-	-	-	E	-	-	-
KRF-X9060D-S		X	-	-	T	E	-	-	-
KRF-X9060D-G		-	-	-	-	-	-	H	-

MODEL	CNT	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
	ABB.	R	Y	Q	L	V	K	M	
VR-6050	6	-	-	-	-	-	K	-	-
KRF-V6060D		-	Y	-	-	-	-	-	-
KRF-V6060D-S		-	-	-	-	-	-	M	-
KRF-V7060D	7	-	-	-	-	-	-	-	-
KRF-V7060D-S		-	-	-	-	-	-	-	-
VR-6060	9	-	-	-	-	-	K	-	-
KRF-V8060D		-	-	-	-	-	-	-	-
KRF-V8060D-S		-	-	-	-	-	-	-	-
KRF-V8060D-G		-	-	-	-	-	-	M	-
VR-6070	5	-	-	-	-	-	K	-	-
KRF-X9060D		-	Y	-	-	-	-	-	-
KRF-X9060D-S		-	-	-	-	-	-	-	-
KRF-X9060D-G		-	-	-	-	-	-	M	-

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

SPECIFICATIONS

For the U.S.A and Canada

AUDIO section (VR-6050)

Rated power output during STEREO operation

> 100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
- FRONT (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W
- CENTER (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven) 100 W
- SURROUND (20 ~ 20 kHz, 0.7 % T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W

Total harmonic distortion ..... 0.009 % (1 kHz, 50 W, 8 Ω)
Frequency response
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 10 Hz ~ 100 kHz, +0 dB ~ –3.0 dB

Signal to noise ratio (IHF'66)
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 95 dB

Loudness control
- VOLUME at –30 dB level ..... +6 dB (100 Hz)

Input sensitivity / impedance
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 500 mV / 47 kΩ

Output level / impedance
- TAPE REC ..... 500 mV / 1 kΩ
- PRE OUT (SURROUND BACK CHANNEL) ..... 2.5 V / 1 kΩ
- PRE OUT (SUBWOOFER) ..... 2.5 V / 1 kΩ

Tone control
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

For other countries (except for the U.K.)

AUDIO section (KRF-V7060D/V6060D)

Effective power output during STEREO operation
- 1 kHz, 10 %, 8 Ω ..... 110 W + 110 W

Rated power output during STEREO operation

> 100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
- FRONT (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) ..... 110 W + 110 W
- CENTER (1kHz, 10 % T.H.D. at 8 Ω one channel driven) ..... 110 W
- SURROUND (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) ..... 110 W + 110 W

Total harmonic distortion ..... 0.009% (1 kHz, 50 W, 8 Ω)
Frequency response
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 10 Hz ~ 100 kHz, +0 dB ~ –3.0 dB

PHONO 'RIAA' response (KRF-V7060D) ..... 40 Hz ~ 20 kHz, 1.5 dB ~ –3.0 dB
Maximum input level
- PHONO (MM) (KRF-V7060D) ..... 45 mV, 1 % T.H.D. at 1 kHz

Signal to noise ratio (IHF'66)
- PHONO (MM) (KRF-V7060D) ..... 75 dB
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 95 dB

Loudness control
- VOLUME at –30 dB level ..... +6 dB (100 Hz)

Input sensitivity / impedance
- PHONO (MM) (KRF-V7060D) ..... 6.0 mV / 47 kΩ
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 500 mV / 47 kΩ

Output level / impedance
- TAPE REC ..... 500 mV / 1 kΩ
- PRE OUT (SURROUND BACK CHANNEL) ..... 2.5 V / 1 kΩ
- PRE OUT (SUBWOOFER) ..... 2.5 V / 1 kΩ

Tone control
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz
Input level / impedance / wave length
- Optical ..... (–15 dBm ~ –24 dBm), 660 nm ±30 nm
- Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
- VIDEO (composite) ..... 1 Vp-p / 75 Ω

S VIDEO inputs / outputs
- S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
- S VIDEO (chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108.0 MHz
Usable sensitivity (MONO)
- VR-6050 ..... 1.3 µV (75 Ω)/ 13.2 dBf (75 kHz dev, SINAD 30 dB)
- KRF-V7060D/V6060D ..... 1.6 µV (75 Ω)/ 15.2 dBf (75 kHz dev, SINAD 30 dB)

50 dB quieting sensitivity
- STEREO ..... 28 µV (75 Ω)/ 40.2 dBf

Total harmonic distortion
- MONO (1 kHz, 75 kHz dev) ..... 0.5% (65 dBf input)
- STEREO (1 kHz, 67.5 + 6.75 kHz dev) ..... 0.7% (65 dBf input)

Signal to noise ratio
- MONO (1 kHz, 75 kHz dev) ..... 75 dB (65 dBf input)
- STEREO (1 kHz, 67.5 + 6.75 kHz dev) ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 40 dB
Selectivity (±400 kHz) (VR-6050) ..... 70 dB
(KRF-V7060D/V6060D) ..... 50 dB
Frequency response (30 Hz ~ 15kHz) ..... +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
- 10 kHz step ..... 530 kHz ~ 1,700 kHz (VR-6050)
- 10 kHz step ..... 530 kHz ~ 1,610 kHz (KRF-V7060D/V6060D)
- 9 kHz step ..... 531 kHz ~ 1,602 kHz (KRF-V7060D/V6060D)

Usable sensitivity (30% mod, S/N 20 dB) ..... 16 µV / (600 µV/m)
Signal to noise ratio (30% mod, 400 Hz) ..... 50 dB (60 dBµ VEMF input)

GENERAL

Power consumption VR-6050 ..... 3 A
KRF-V7060D/V6060D ..... 300 W

AC outlet
- SWITCHED VR-6050 ..... (total 150 W, 1.25 A max.)
- KRF-V7060D/V6060D ..... (total 90 W max.)

Dimensions ..... W : 440 mm (17-5/16")
H : 159 mm (6-1/4")
D : 392 mm (15-7/16")

Weight (Net)
- VR-6050 ..... 9.4 kg (20.7 lb)
- KRF-V7060D/V6060D ..... 10.0 kg (22.0 lb)

MC-Service

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

SPECIFICATIONS

For the U.K. only

AUDIO section (KRF-V6060D)

Rated power output during STEREO operation
DIN/IEC (63 Hz ~ 12.5 kHz, 0.09 % T.H.D. at 6 Ω) ..... 100 W + 100 W
Effective power output during SURROUND operation
FRONT (63 Hz ~ 12.5 kHz, 0.09 % T.H.D. at 6 Ω one channel driven) 100 W + 100 W
CENTER (63 Hz ~ 12.5 kHz, 0.09 % T.H.D. at 6 Ω one channel driven) ..... 100 W
SURROUND (63 Hz ~ 12.5 kHz, 0.7 % T.H.D. at 6 Ω one channel driven) ..... 100 W + 100 W
Total harmonic distortion ..... 0.009 % (1 kHz, 50 W, 6 Ω)
Frequency response
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 10 Hz ~ 100 kHz, +0 dB ~ –3.0 dB
PHONO 'RIAA' response ..... 40 Hz ~ 20 kHz, +1.5 dB ~ –3.0 dB
Maximum input level
PHONO (MM) ..... 45 mV, 1 % T.H.D. at 1 kHz
Signal to noise ratio (IHF'66)
PHONO (MM) ..... 75 dB
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 95 dB
Loudness control
VOLUME at –30 dB level ..... +6 dB (100 Hz)
Input sensitivity / impedance
PHONO (MM) ..... 6.0 mV / 47 kΩ
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 500 mV / 47 kΩ
Output level / impedance
TAPE REC ..... 500 mV / 1 kΩ
PRE OUT (SURROUND BACK CHANNEL) ..... 2.5 V / 1 kΩ
PRE OUT (SUBWOOFER) ..... 2.5 V / 1 kΩ
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz
Input level / impedance / wave length
Optical ..... (–15 dBm ~ –24 dBm), 660 nm ±30 nm
Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
VIDEO (composite) ..... 1 Vp-p / 75 Ω
S VIDEO inputs /outputs
S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
S VIDEO (chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity
MONO ..... 1.3 µV (75 Ω)/ 13.2 dBf (40 kHz dev, S/N 26 dB)
STEREO ..... 45 µV (75 Ω)/ 42.1 dBf (40 + 6 kHz dev, S/N 46 dB)
Total harmonic distortion
MONO (1 kHz, 40 kHz dev) ..... 0.2% (65.2 dBf input)
STEREO (1 kHz, 40 + 6 kHz dev) ..... 0.8% (65.2 dBf input)
Signal to noise ratio (DIN weighted at 1 kHz)
MONO ..... 65 dB (65.2 dBf input)
STEREO ..... 60 dB (65.2 dBf input)
Stereo separation (1 kHz) ..... 36 dB
Selectivity (±300 kHz) ..... 64 dB
Frequency response (30 Hz ~ 15kHz) ..... +0.5 dB, –3.0 dB

MW tuner section

Tuning frequency range ..... 531 kHz ~ 1,602 kHz
Usable sensitivity (30% mod, S/N 20 dB) ..... 16 µV / (600 µV/m)
Signal to noise ratio (400 Hz, 30% mod) ..... 50 dB (60 dBµ VEMF input)

GENERAL

Power consumption ..... 330 W
AC outlet
SWITCHED ..... (total 90 W max.)
Dimensions ..... W : 440 mm (17-5/16")
H : 159 mm (6-1/4")
D : 392 mm (15-7/16")
Weight (Net) ..... 9.8 kg (21.6 lb)

Notes
1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

SPECIFICATIONS

For the U.S.A and Canada

AUDIO section (VR-6060)

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
- FRONT (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W
- CENTER (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven) 100 W
- SURROUND (20 ~ 20 kHz, 0.7 % T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W
- SURROUND BACK/SUBWOOFER (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven) ..... 100 W

Total harmonic distortion ..... 0.009 % (1 kHz, 50 W, 8 Ω)
Frequency response
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 10 Hz ~ 100 kHz, +0 dB ~ –3.0 dB

PHONO 'RIAA' response ..... 40 Hz ~ 20 kHz, +1.5 dB ~ –3.0 dB
Maximum input level
- PHONO (MM) ..... 45 mV, 1 % T.H.D. at 1 kHz

Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 75 dB
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 95 dB

Loudness control
- VOLUME at –30 dB level ..... +6 dB (100 Hz)

Input sensitivity / impedance
- PHONO (MM) ..... 6.0 mV / 47 kΩ
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 500 mV / 47 kΩ

Output level / impedance
- TAPE REC ..... 500 mV / 1 kΩ
- PRE OUT (SURROUND BACK CHANNEL) ..... 2.5 V / 1 kΩ
- PRE OUT (SUBWOOFER) ..... 2.5 V / 1 kΩ

Tone control
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

For other countries

AUDIO section (KRF-V8060D)

Effective power output during STEREO operation
- 1 kHz, 10 %, 8 Ω ..... 110 W + 110 W

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
- FRONT (1 kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 110 W + 110 W
- CENTER (1 kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 110 W
- SURROUND (1 kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 110 W + 110 W
- SURROUND BACK/SUBWOOFER (1 kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 110 W

Total harmonic distortion ..... 0.009% (1 kHz, 50 W, 8 Ω)
Frequency response
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 10 Hz ~ 100 kHz, +0 dB ~ –3.0 dB

PHONO 'RIAA' response ..... 40 Hz ~ 20 kHz, 1.5 dB ~ –3.0 dB
Maximum input level
- PHONO (MM) ..... 45 mV, 1 % T.H.D. at 1 kHz

Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 75 dB
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 95 dB

Loudness control
- VOLUME at –30 dB level ..... +6 dB (100 Hz)

Input sensitivity / impedance
- PHONO (MM) ..... 6.0 mV / 47 kΩ
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 500 mV / 47 kΩ

Output level / impedance
- TAPE REC ..... 500 mV / 1 kΩ
- PRE OUT (SURROUND BACK CHANNEL) ..... 2.5 V / 1 kΩ
- PRE OUT (SUBWOOFER) ..... 2.5 V / 1 kΩ

Tone control
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz
Input level / impedance / wave length
- Optical ..... (–15 dBm ~ –24 dBm), 660 nm ±30 nm
- Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
- VIDEO (composite) ..... 1 Vp-p / 75 Ω

S VIDEO inputs /outputs
- S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
- S VIDEO (chrominance signal) ..... 0.286 Vp-p / 75 Ω

COMPONENT VIDEO inputs /outputs
- COMPONENT VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
- COMPONENT VIDEO (CB/CR-signal) ..... ±0.32 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108.0 MHz
Usable sensitivity (MONO)
- VR-6060 ..... 1.3 µV (75 Ω)/ 13.2 dBf (75 kHz dev, SINAD 30 dB)
- KRF-V8060D ..... 1.6 µV (75 Ω)/ 15.2 dBf (75 kHz dev, SINAD 30 dB)

50 dB quieting sensitivity
- STEREO ..... 28 µV (75 Ω)/ 40.2 dBf

Total harmonic distortion
- MONO (1 kHz, 75 kHz dev) ..... 0.5% (65 dBf input)
- STEREO (1 kHz, 67.5 + 6.75 kHz dev) ..... 0.7% (65 dBf input)

Signal to noise ratio
- MONO (1 kHz, 75 kHz dev) ..... 75 dB (65 dBf input)
- STEREO (1 kHz, 67.5 + 6.75 kHz dev) ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 40 dB
Selectivity (±400 kHz) (VR-6060) ..... 70 dB
(KRF-V8060D) ..... 50 dB
Frequency response (30 Hz ~ 15 kHz) ..... +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
- 10 kHz step ..... 530 kHz ~ 1,700 kHz (VR-6060)
- 10 kHz step ..... 530 kHz ~ 1,610 kHz (KRF-V8060D)
- 9 kHz step ..... 531 kHz ~ 1,602 kHz (KRF-V8060D)

Usable sensitivity (30% mod, S/N 20 dB) ..... 16 µV / (600 µV/m)
Signal to noise ratio (30% mod, 400 Hz) ..... 50 dB (60 dBµ VEMF input)

GENERAL

Power consumption
- VR-6060 ..... 3 A
- KRF-V8060D ..... 300 W

AC outlet
- SWITCHED VR-6060 ..... (total 150 W, 1.25 A max.)
- KRF-V8060D ..... (total 90 W max.)

Dimensions ..... W : 440 mm (17-5/16")
H : 159 mm (6-1/4")
D : 392 mm (15-7/16")

Weight (Net)
- VR-6060 ..... 9.4 kg (20.7 lb)
- KRF-V8060D ..... 10.0 kg (22.0 lb)

Notes
1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

SPECIFICATIONS

For the U.S.A and Canada

AUDIO section (VR-6070)

Rated power output during STEREO operation

> 100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
- FRONT (20 Hz ~ 20 kHz, 0.09% T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W
- CENTER (20 Hz ~ 20 kHz, 0.09% T.H.D. at 8 Ω one channel driven) ..... 100 W
- SURROUND (20 Hz ~ 20 kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W
- SURROUND BACK/SUBWOOFER (20 Hz ~ 20 kHz, 0.09% T.H.D. at 8 Ω one channel driven) ..... 100 W

Total harmonic distortion ..... 0.009% (1 kHz, 50 W, 8 Ω)
Frequency response
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 10 Hz ~ 100 kHz, +0 dB ~ –3.0 dB

PHONO 'RIAA' response ..... 40 Hz ~ 20 kHz, +1.5 dB ~ –3.0 dB
Maximum input level
- PHONO (MM) ..... 45 mV, 1% T.H.D. at 1 kHz

Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 75 dB
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 95 dB

Loudness control
- VOLUME at –30 dB level ..... +6 dB (100 Hz)

Input sensitivity / impedance
- PHONO (MM) ..... 4.0 mV / 47 kΩ
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 320 mV / 47 kΩ

Output level / impedance
- TAPE REC ..... 320 mV / 1 kΩ
- PRE OUT (FRONT,CENTER,SURROUND) ..... 1 V / 500 Ω
- PRE OUT (SURROUND BACK) ..... 1 V / 500 Ω
- PRE OUT (SUBWOOFER) ..... 1 V / 500 Ω

Tone control
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

For other countries (except for the U.K.)

AUDIO section (KRF-X9060D)

Effective power output during STEREO operation
- 1 kHz, 10 %, 8 Ω ..... 130 W + 130 W

Rated power output during STEREO operation

> 100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
- FRONT (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) ..... 130 W + 130 W
- CENTER (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) ..... 130 W
- SURROUND (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) ..... 130 W + 130 W
- SURROUND BACK/SUBWOOFER (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) ..... 130 W

Total harmonic distortion ..... 0.009% (1 kHz, 50 W, 8 Ω)
Frequency response
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 10 Hz ~ 100 kHz, +0 dB ~ –3.0 dB

PHONO 'RIAA' response ..... 40 Hz ~ 20 kHz, 1.5 dB ~ –3.0 dB
Maximum input level
- PHONO (MM) ..... 45 mV, 1 % T.H.D. at 1 kHz

Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 75 dB
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 95 dB

Loudness control
- VOLUME at –30 dB level ..... +6 dB (100 Hz)

Input sensitivity / impedance
- PHONO (MM) ..... 4.0 mV / 47 kΩ
- Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 320 mV / 47 kΩ

Output level / impedance
- TAPE REC ..... 320 mV / 1 kΩ
- PRE OUT (FRONT,CENTER,SURROUND) ..... 1 V / 500 Ω
- PRE OUT (SURROUND BACK) ..... 1 V / 500 Ω
- PRE OUT (SUBWOOFER) ..... 1 V / 500 Ω

Tone control
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz
Input level / impedance / wave length
- Optical ..... (–15 dBm ~ –24 dBm), 660 nm ±30 nm
- Coaxial ..... 0.5 Vp-p / 75 Ω

Output level / impedance / wave length
- Optical ..... (–21 dBm ~ –15 dBm), 660 nm ±30 nm

VIDEO section

VIDEO inputs / outputs
- VIDEO (composite) ..... 1 Vp-p / 75 Ω

S VIDEO inputs /outputs
- S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
- S VIDEO (chrominance signal) ..... 0.286 Vp-p / 75 Ω

COMPONENT VIDEO inputs /outputs
- COMPONENT VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
- COMPONENT VIDEO (CB/CR-signal) ..... ±0.32 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)
- VR-6070 ..... 1.3 µV (75 Ω)/ 13.2 dBf (75 kHz dev, SINAD 30 dB)
- KRF-X9060D ..... 1.6 µV (75 Ω)/ 15.2 dBf (75 kHz dev, SINAD 30 dB)

50 dB quieting sensitivity
- STEREO ..... 28 µV (75 Ω)/ 40.2 dBf

Total harmonic distortion
- MONO (1 kHz, 75 kHz dev) ..... 0.5% (65 dBf input)
- STEREO (1 kHz, 67.5 + 6.75 kHz dev) ..... 0.7% (65 dBf input)

Signal to noise ratio
- MONO (1 kHz, 75 kHz dev) ..... 75 dB (65 dBf input)
- STEREO (1 kHz, 67.5 + 6.75 kHz dev) ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 40 dB
Selectivity (±400 kHz) (VR-6070) ..... 70 dB
(KRF-X9060D) ..... 50 dB
Frequency response (30 Hz ~ 15kHz) ..... +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
- 10 kHz step ..... 530 kHz ~ 1,700 kHz (VR-6070)
- 10 kHz step ..... 530 kHz ~ 1,610 kHz (KRF-X9060D)
- 9 kHz step ..... 531 kHz ~ 1,602 kHz (KRF-X9060D)

Usable sensitivity (30% mod, S/N 20 dB) ..... 16 µV / (600 µV/m)
Signal to noise ratio (30% mod, 400 Hz) ..... 50 dB (60 dBµ VEMF input)

GENERAL

Power consumption VR-6070 ..... 3 A
KRF-X9060D ..... 300 W

AC outlet
SWITCHED VR-6070 ..... (total 150 W, 1.25 A max.)
KRF-X9060D ..... (total 90 W max.)

Dimensions ..... W : 440 mm (17-5/16")
H : 159 mm (6-1/4")
D : 392 mm (15-7/16")

Weight (Net)
- VR-6070 ..... 9.4 kg (20.7 lb)
- KRF-X9060D ..... 10.0 kg (22.0 lb)

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

SPECIFICATIONS

For the U.K. only

AUDIO section (KRF-X9060D)

Rated power output during STEREO operation
DIN/IEC (20 Hz ~ 20 kHz, 0.09% T.H.D. at 6 Ω) ..... 100 W + 100 W
Effective power output during SURROUND operation
FRONT (20 Hz ~ 20 kHz, 0.09% T.H.D. at 6 Ω one channel driven) ..... 100 W + 100 W
CENTER (20 Hz ~ 20 kHz, 0.09% T.H.D. at 6 Ω one channel driven) ..... 100 W
SURROUND (20 Hz ~ 20 kHz, 0.7% T.H.D. at 6 Ω one channel driven) 100 W + 100 W
SURROUND BACK/SUBWOOFER (20 Hz ~ 20 kHz, 0.09% T.H.D. at 6 Ω one channel driven) ..... 100 W
Total harmonic distortion ..... 0.009% (1 kHz, 50 W, 6 Ω)
Frequency response
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 10 Hz ~ 100 kHz, +0 dB ~ –3.0 dB
PHONO 'RIAA' response ..... 40 Hz ~ 20 kHz, +1.5 dB ~ –3.0 dB
Maximum input level
PHONO (MM) ..... 45 mV, 1% T.H.D. at 1 kHz
Signal to noise ratio (IHF'66)
PHONO (MM) ..... 75 dB
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 95 dB
Loudness control
VOLUME at –30 dB level ..... +6 dB (100 Hz)
Input sensitivity / impedance
PHONO (MM) ..... 4.0 mV / 47 kΩ
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) ..... 320 mV / 47 kΩ
Output level / impedance
TAPE REC ..... 320 mV / 1 kΩ
PRE OUT (FRONT,CENTER,SURROUND) ..... 1 V / 500 Ω
PRE OUT (SURROUND BACK) ..... 1 V / 500 Ω
PRE OUT (SUBWOOFER) ..... 1 V / 500 Ω
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz
Input level / impedance / wave length
Optical ..... (–15 dBm ~ –24 dBm), 660 nm ±30 nm
Coaxial ..... 0.5 Vp-p / 75 Ω
Output level / impedance / wave length
Optical ..... (–21 dBm ~ –15 dBm), 660 nm ±30 nm

VIDEO section

VIDEO inputs / outputs
VIDEO (composite) ..... 1 Vp-p / 75 Ω
S VIDEO inputs /outputs
S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
S VIDEO (chrominance signal) ..... 0.286 Vp-p / 75 Ω
COMPONENT VIDEO inputs /outputs
COMPONENT VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
COMPONENT VIDEO (CB/CR-signal) ..... ±0.32 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity
MONO ..... 1.3 μV (75 Ω)/ 13.2 dBf (40 kHz dev, S/N 26 dB)
STEREO ..... 45 μV (75 Ω)/ 42.1 dBf (40 + 6 kHz dev, S/N 46 dB)
Total harmonic distortion
MONO (1 kHz, 40 kHz dev) ..... 0.2% (65.2 dBf input)
STEREO (1 kHz, 40 + 6 kHz dev) ..... 0.8% (65.2 dBf input)
Signal to noise ratio (DIN weighted at 1 kHz)
MONO ..... 65 dB (65.2 dBf input)
STEREO ..... 60 dB (65.2 dBf input)
Stereo separation (1 kHz) ..... 36 dB
Selectivity (±300 kHz) ..... 64 dB
Frequency response (30 Hz ~ 15 kHz) ..... +0.5 dB, –3.0 dB

MW tuner section

Tuning frequency range ..... 531 kHz ~ 1,602 kHz
Usable sensitivity (30% mod, S/N 20 dB) ..... 16 μV / (600 μV/m)
Signal to noise ratio (400 Hz, 30% mod) ..... 50 dB (60 dBμ VEMF input)

GENERAL

Power consumption ..... 330 W
AC outlet
SWITCHED ..... (total 90 W max.)
Dimensions ..... W : 440 mm (17-5/16")
H : 159 mm (6-1/4")
D : 392 mm (15-7/16")
Weight (Net) ..... 9.8 kg (21.6 lb)

Notes
1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

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